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2012-06	V1.0		
2015-03	V1.1		

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RSR20
RSR20-14E/F

MSTP

But

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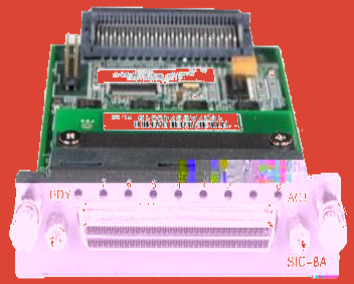
° ´	RSR20-14E
ڶ ب ل	1 Console 1 AUX 1 USB 1 SD 1 ۃ أ ۼ 24 10/ 100 ل 2 ɔ 2 SFP 2 ɔ ۃ
SIC Rs	4 ۃ ⋮ ـ ا ب ل 4 SIC
BOOT ROM	8MB
NAND FLASH	128MB
DDR II	512MB
(W×H×D)	440mm×43.6mm×300mm (1U)
ڑ ɔ	AC100 240V 50~60Hz
ǎ	50W
ע □	0 45
ע □	-40 70
►	10 95%RH

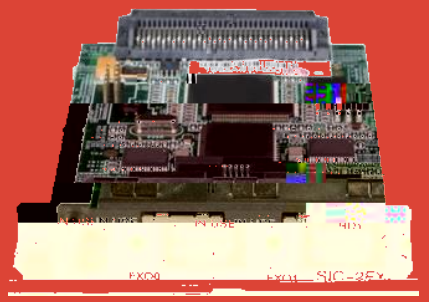
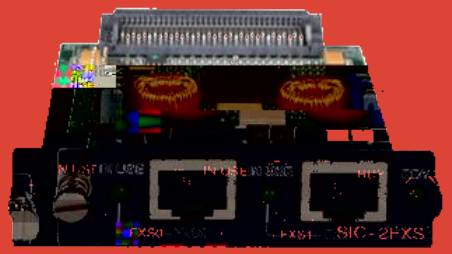
1	SLOT 2	2	SLOT 3
3	SLOT 4	4	SLOT 5
5	ɔ ◊	6	ɔ ◊
7		8	

1	SLOT2	2	SLOT3
3	SLOT4	4	SLOT5
5	SLOT6	6	
7		8	

RSR20-14E/FW

- SIC
  - SIC-1HS
  - SIC-1E1-F
  - SIC-ISDN-S/T
  - SIC-1B-U
  - SIC-8A
  - SIC-2FXS
  - SIC-2FXO
  - SIC-1CE1
  - SIC-3G-TD
  - SIC-3G-WCDMA
  - SIC-3G-CDMA
  - SIC-SEC
- NMX
  - RSR20-14F(V1.X) NMX-24ESW



ð RSR20 SIC p Rs ت ٣ Rs ز ‰
├ ⅛ Rs ĩ 1 SIC Rs 1 SIC

SIC ٦ 1 ٧ f

类型	RSR20-14E 支持的 SIC 线卡
A 类	SIC-4BSV、SIC-4BLV、SIC-1B-S/T、SIC-2EXS、SIC-2EXC、SIC-2FC、
DMA、SIC-3G-WCDMA、	B 类 SIC-1HS、SIC-3G-1D、SIC-3G-C
	C 类 SIC-1CE1、SIC-1E1-F
	D 类 暂无支持的 D 类卡

RSR20-14E₩

RSR20-14E ¡¡ SIC †
ABCD
SIC 4

SIC	2	3	4	5	
SIC-4ESW	X	X	X	X	
SIC-1CE1					4
SIC-1E1-F					4
SIC-1HS					4
SIC-3G-TD					3
SIC-3G-WCDMA					3
SIC-3G-CDMA					3
SIC-SEC					1
SIC-1A	X	X	X	X	
SIC-8A					4
SIC-1B-U					*4*
SIC-1B-S/T					*4*
SIC-2FXS					4
SIC-2FXO					4

₦ ₌ ڜ	RSR20-04	RSR20-14	RSR20-24	RSR20-14E	RSR20-14F
Consol/AUX	2 ` ♀.	2 ` ♀.	2 ` ♀.	2 ` ♀.	2 ` ♀.
≠	2FE	3FE	2FE	2GE ≠ ∀	2GE ≠ ∀
	0	0	0	2	1
≠	0	0	0	24FE	48FE
˜ ~	4	24	52	24	48(v2.x` ) 72(v1.x`)
SD/CF	0	0	0	1	1
USB	0	2	2	1	1
SIC †	4				

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- ₩ ﻝ ث ٠ أ ث ٠ ٹ ـِ لـبـ ق إ ـد
  س ₩ لـبـ
- لـبـOBJ لـبـOBJ ٧
- ₩ لـبـ ﻝ ٨ ٤ SVI

4 ٬

- RSR20-14E : fastEthernet 1/0 - fastEthernet 1/23
- RSR20-14F : fastEthernet 1/0 - fastEthernet 1/47

NMX-24ESW ٧ ₱

- أ ث ٠ ٹ ـِ لـبـ أ أ ` لـبـ
  ð ث ٠ ٹ ـِ
- NMX-24ESW أً RSR20-14F ð لـبـ ـ SVI ٤
  لـبـ
- RSR20-14F ð̈ RSR20 ٤ OBJ ـ OBJ ` OBJ ð̈
  RSR20 ـ service-module fastEthernet 2/0 session
- RSR20-14F ؟ ٧ ' ˚ ´ گ أ إ ـد
  أ OBJ ■ . ٧ ڤ ڈ ئ ک ا RSR20 ث ٠
  أ ـ V1.2.doc

₩ بـلـ

vlan

```
Ruijie(config)#vlan 2
Ruijie(config-vlan)# name ـا ـلـ
Ruijie(config-vlan)#!
Ruijie(config-vlan)#vlan 3
Ruijie(config-vlan)# name ð إ ˇ
Ruijie(config-vlan)#!
Ruijie(config-vlan)#vlan 4
Ruijie(config-vlan)# name إ ـ
```

ˆ vlan

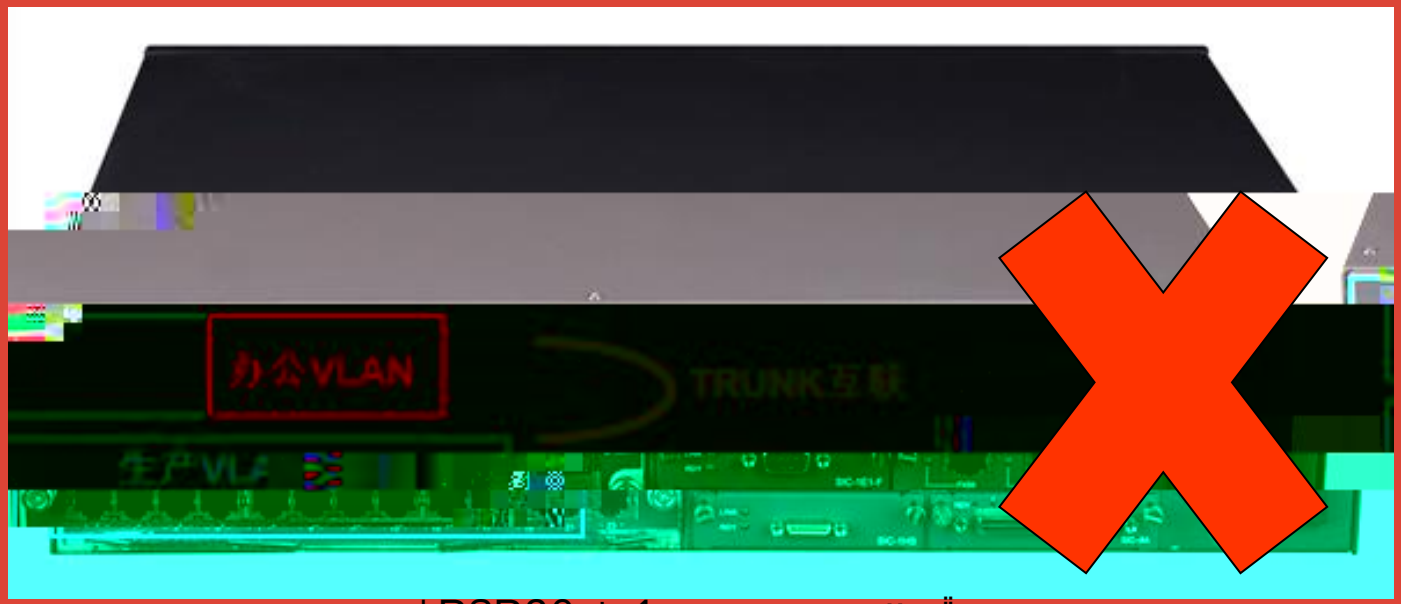
```
Ruijie(config)#interface fastEthernet 1/0
Ruijie(config-if)#switchport access vlan 2
Ruijie(config)#interface fastEthernet 1/1
Ruijie(config-if)#switchport access vlan 3
Ruijie(config)#interface range fastEthernet 1/2
- 4
Ruijie(config-if-range)#switchport access vlan
4
//      range[OBJ]بـلـ
```

SVI

```
Ruijie(config)#interface VLAN 2
Ruijie(config-if
```

⁴ پ ڑ ڎ ڋ ڊ ٥ ف ٧ trunk ٧ ٧ ٧ ٨

- ₫ RSR20 VLAN



ٮ RSR20 ف ٧ ڤ ٹ

₫ RSR20 ت ٠ Ăˇ ٭ V1.2.doc

⁴ ᵘ ⅄

- VLAN/TRUNK
- ᵎ AP
- ⅄ IP ⅃
- ⅄ ᔑ ᔕ
- 802.1X ɲ -
- ı ‴

⁴ ᵑ ᵘ ⅄

- ᔑ ⅃ ᵔ ᵔ
- ⅄ ᔑ
- RLDP
- IGMP SNOOPING
- ACL

ʊ ĺ ∩ ѵ

Show cpu ´H

show cpu ج₩ ŕ CPU° ◊ڤΦ ﾉ ɯ ' ﻩ ا ج° ◊ ﾉ ɯ

ن ص ٨

Ruijie(support)#ef_statics_switch ?
<0-1> 0-1

0 ڑ ج° ◊ ﾉ ɯ
1 ج° ◊ ﾉ ɯ

↕ ج ج Ω ∩ ن ۱ Ն ج show cpu ج Pts Վ پ

ن ۱ Ն

OAM

cpu

RSR20-14F#show temperature
Device Temperature(C)
------ --------------
CM 42
RSR20-14F#sho environment

Environmental status update at 13:29:13 1993-03-04.
Data is 18 second old, refresh in 20 second(s).
Power Supplies:
Fans working status:
Fan 1 is on.
Fan 2 is on.
Temperature readings:
measured at 42 C
Hardware:
CPU name: OCTEON.
CPU Speed : 500M

RSR20-14E

E1 ♩ ╒ ≡

20-14E/F ◦ ŕ FPGA א cpm ΐ FPGA א ע ע

ℓ loopback DTE ٦ ΐ Φ ع ب ـل

˝ ¡ ۱ ک ` ۱RSR20

₱

گ گCPU ת 1 ۶ ف Φ ں ھ ת ز گ ₿ ۽ گ
CPU ת ۳ CPUح ă ھ ں ۶ OBJ چ

₹

ہ ز ۱ ں ھ * أ OBJ ں ھ ă * OBJ چ
⅝ * OBJ ם گCPU ת ن ۸ ۷ ע OBJ
□ أ گ ڈ ת RSR77ں ₱ أ

₹ Ạ

- گCPU ת ۷ CPUح OBJ
- ۱ ₿ گ ک ب۷ ۵ ۷ ۸ ؛ ۶ أ ۷
  ⅝ ۷* ⅛ ۶ أ ARP 10 ۵ ب۷

```
control-plane manage
port-filter
 arp-car 10
 no acpp
```

گ

ف ۱ ۲ ۞

control-plane
!
control-plane protocol
 no acpp //
!
control-plane manage
 no port-filter //
 UDP
 no arp-car //arp
 no acpp
!
control-plane data
 no glean-car //
 IP
 no acpp

ۣ ف ۱ گ e ۽

control-plane
!
control-plane protocol
no acpp
!
control-plane manage
port-filter
 arp-car 10
 no acpp
!
control-plane data
glean-car 5
 acpp bw-rate 300 bw-burst-rate 600

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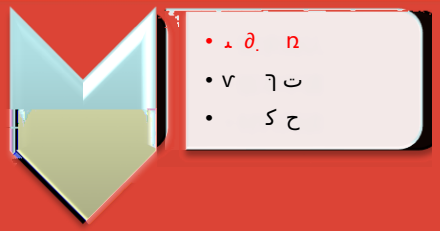

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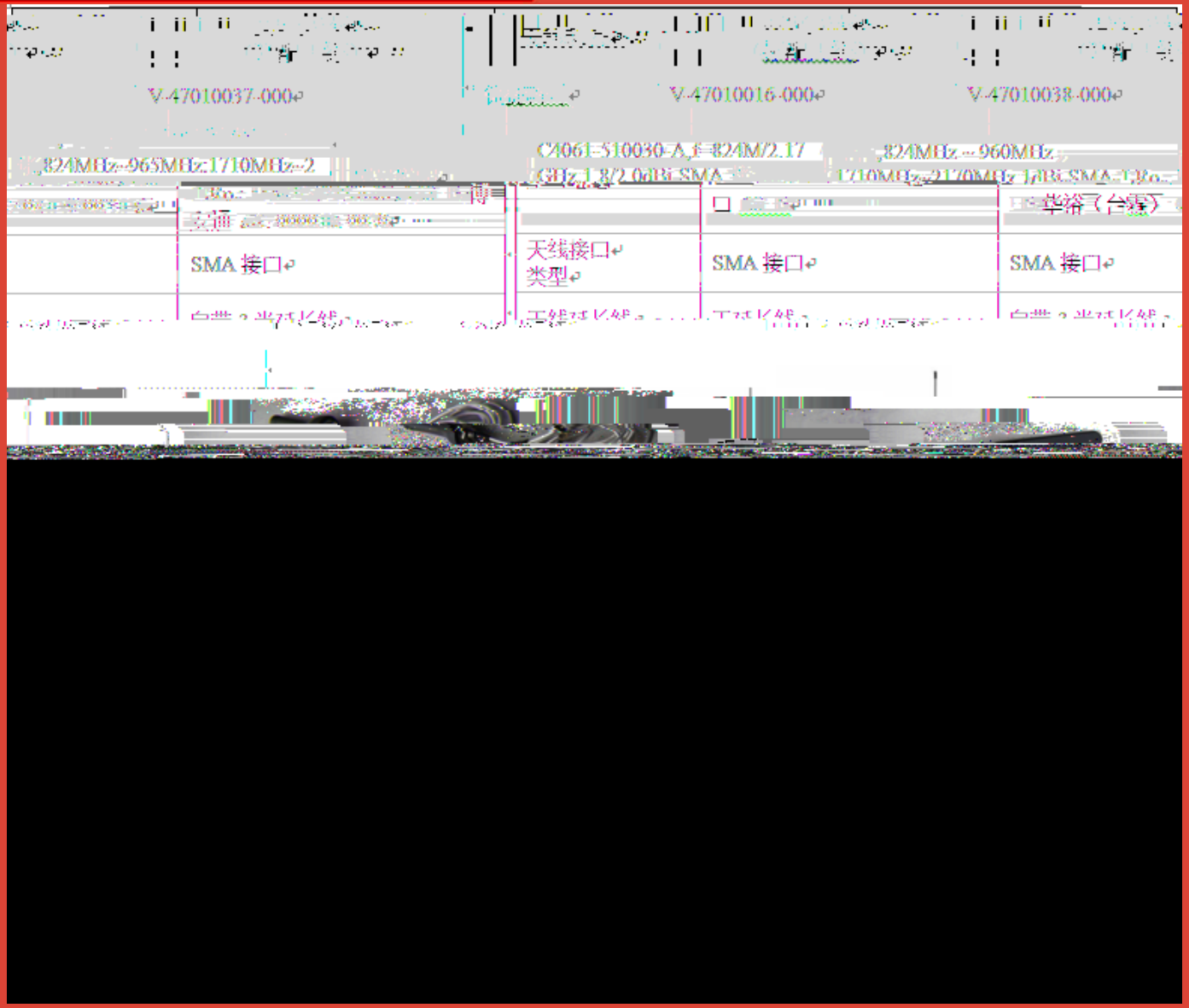
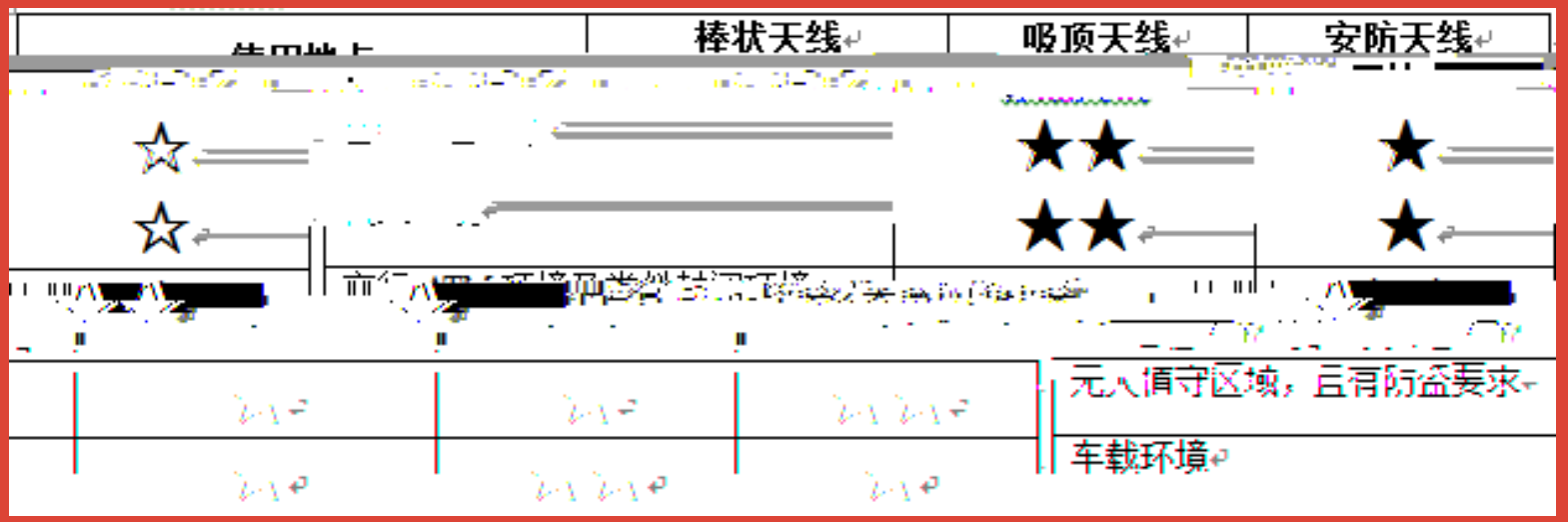
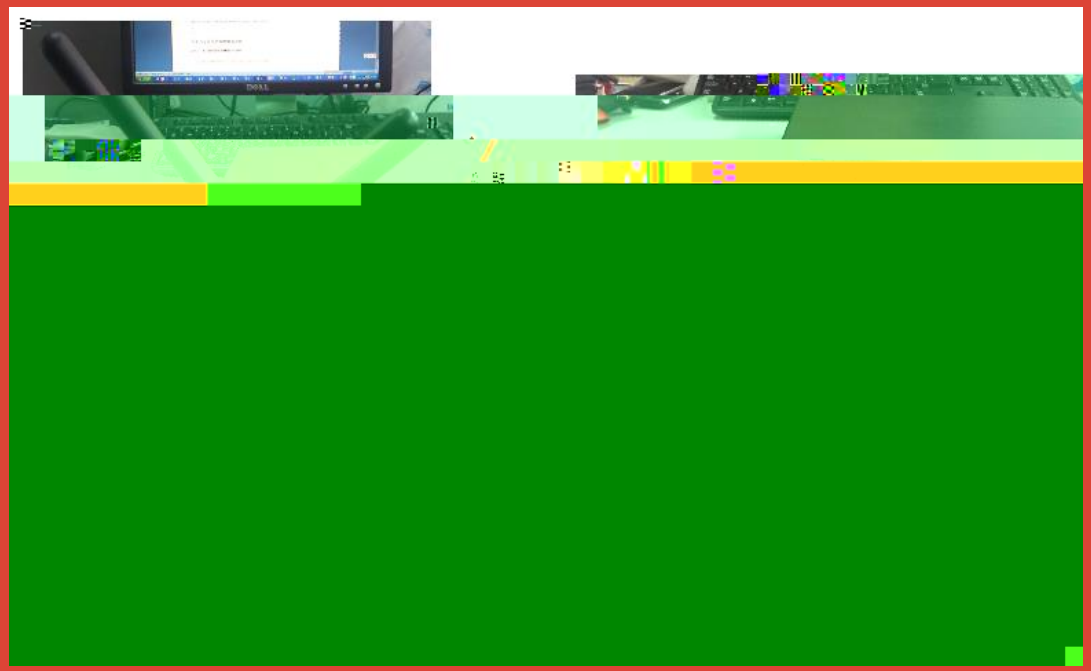

V-47010037-000
V-47010016-000
V-47010038-000
824MHz~960MHz
SMA 接口
天线接口类型
SMA 接口
SMA 接口



t t

A
B
C
错误的姿势！禁止纵向



3G

rgos.bin

rgos.bin

tftp

rgos.bin

.doc

RSR

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- v ٨
- ً

NMX-24ESW ٨ ٨

SIC-3G ٨

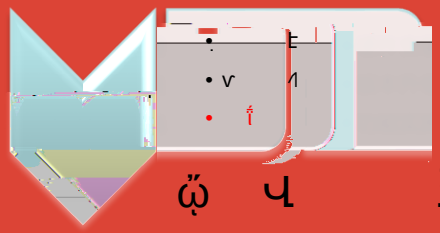
SIC-3G ؤ v ث ٠ ٨ ب ğ ء ب ٦ أً
ڈ ئ ٨ ک ح releasenote n * . SIC-3G ؤ v ٨
| ٦ xmodem tftp

- Xmodem ٨ ڑ ڈ ذ ٨ گ □ ٨
- Tftp ٨ ڑ ~ ℓ ح ⅝ ڈ گ ⅈ ث ٠ ٨ جـ SIC-3G ٨

ؤ SIC-3G ٨ | ├ ° ğ RSR٨ ث ٠ SIC-3G ٨ ٨ .doc

XWRJ(config)#interface f 0/0
XWRJ(config -if-FastEthernet 0/0)#description To_BJ

XWRJ#clock set 12:12:12 1 1 2012



flash

```
XWRJ(config)#logging file flash:log.text 2000000
```

IP loopback 0

```
XWRJ(config )#interface  loopback  0
XWRJ(config -if-Loopback 0)#  ip  add 1.1.1.1 255.255.255.255
```

TELNET telnet

```
XWRJ(config)#enable secret 0 ruijie   //  telnet  enable .
XWRJ(config)#lin vty 0 4
XWRJ(config -line)#password 0 ruijie
XWRJ(config -line)#login
```

```
Router ( config )# service password  -encryption
```

IP+MAC+ ٧ ٦

- : Ь
- v ٧
- f

h ٣ ٩

٧ + OBJipmacbind

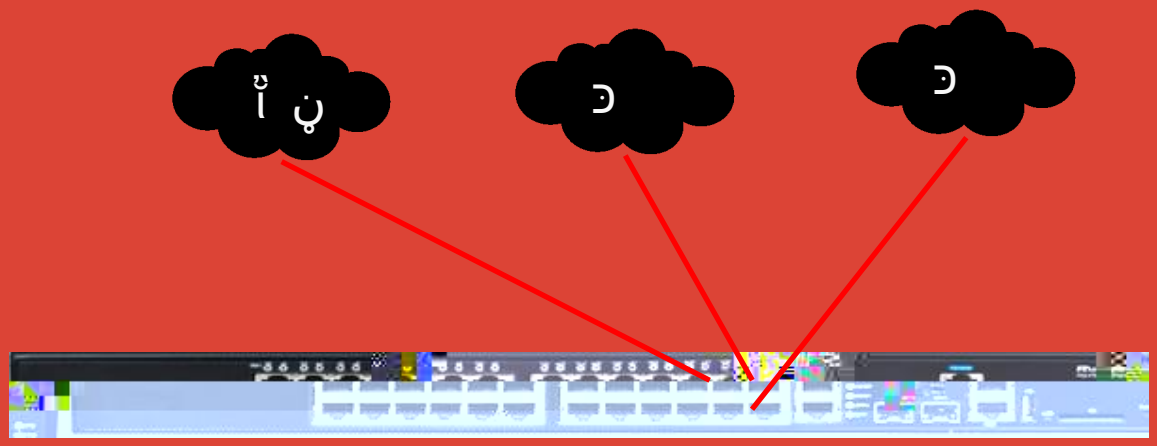
+SVI OBJACL

- ٧ ٦ MAC+ ٧
- Ipmacbind ٦ IP MAC

RSR20-14E/F

3 MSTP

- vlan
- vlan SVI



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RSR20 ปก

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VPN

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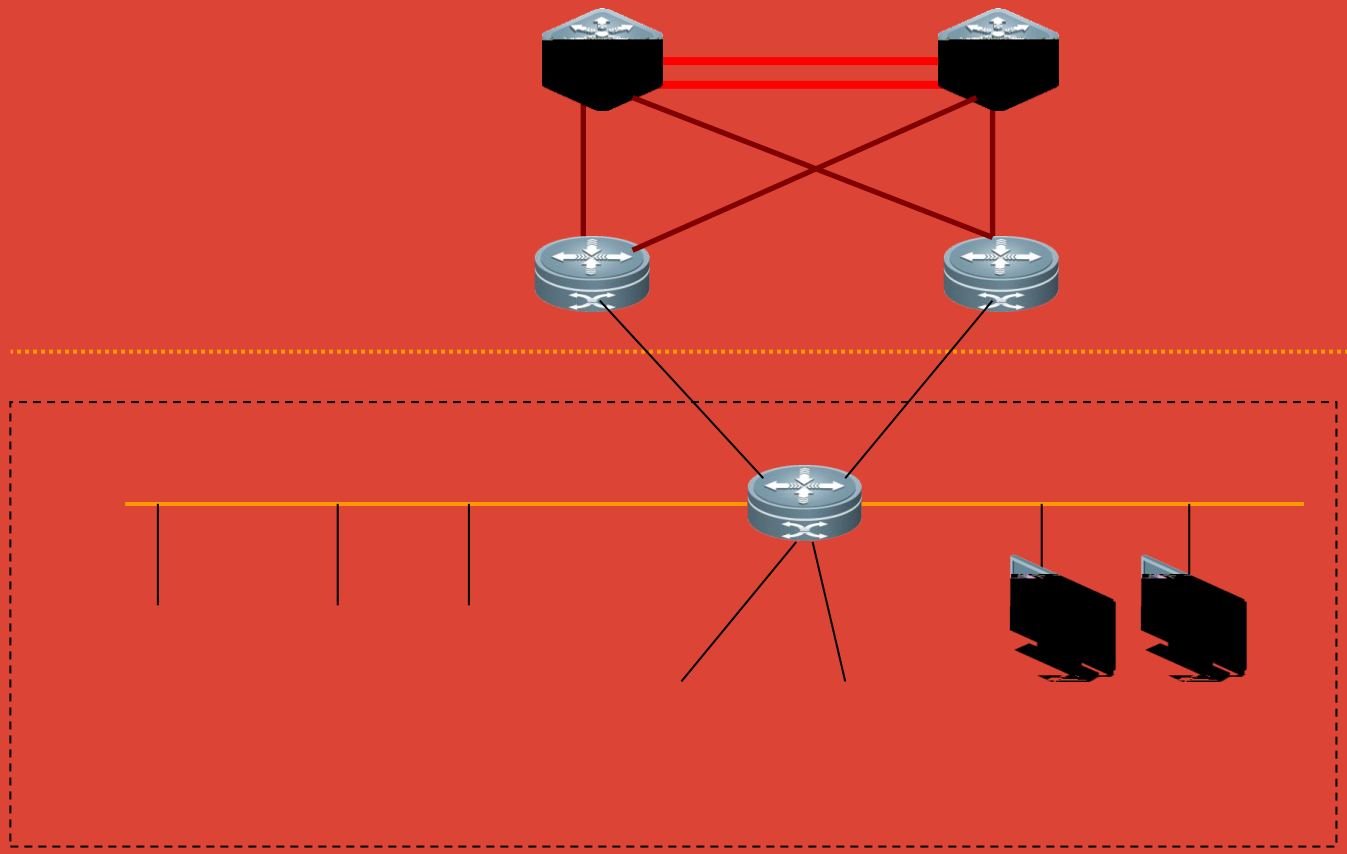
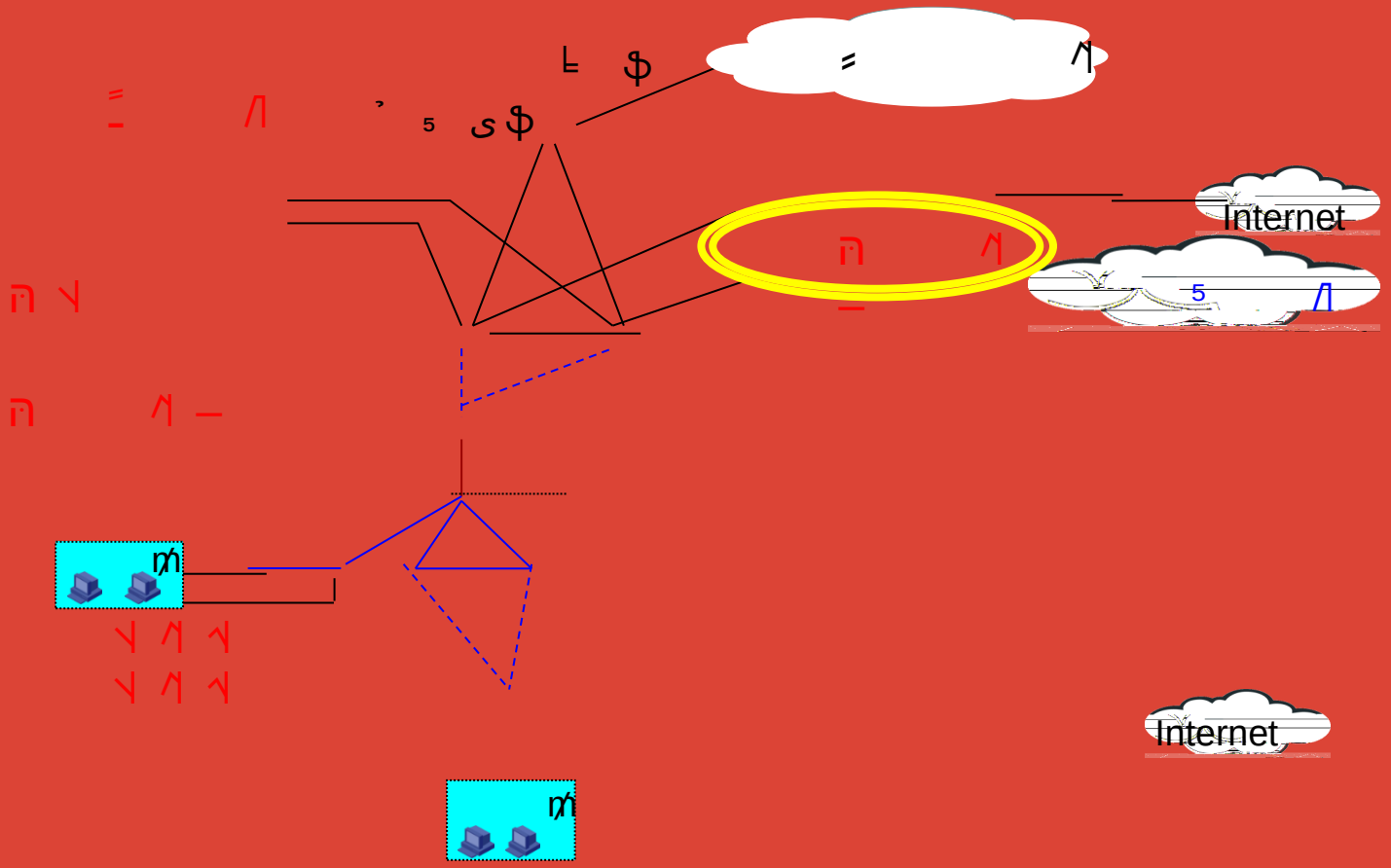
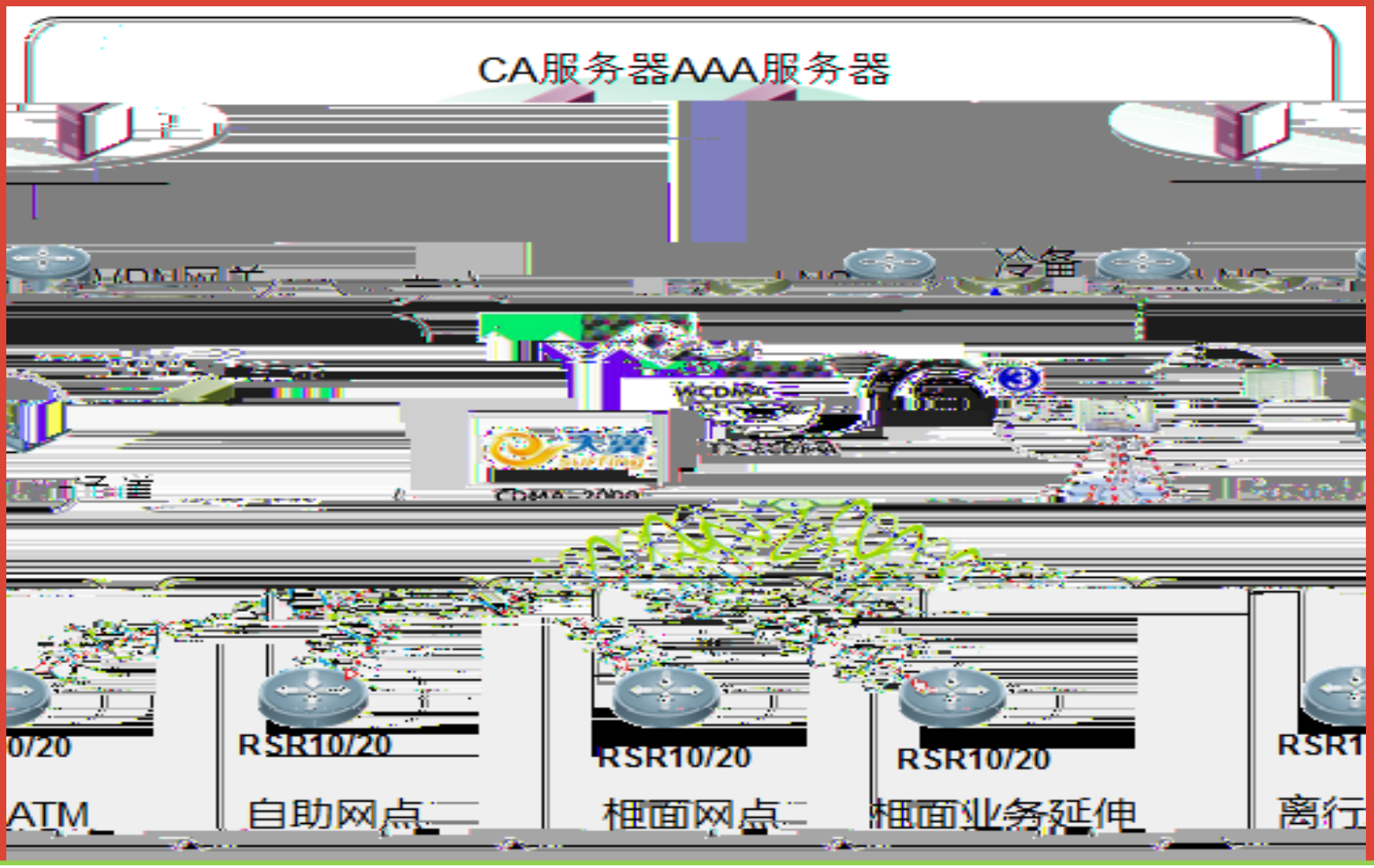
۲ ۱ OBJ 3G ۱

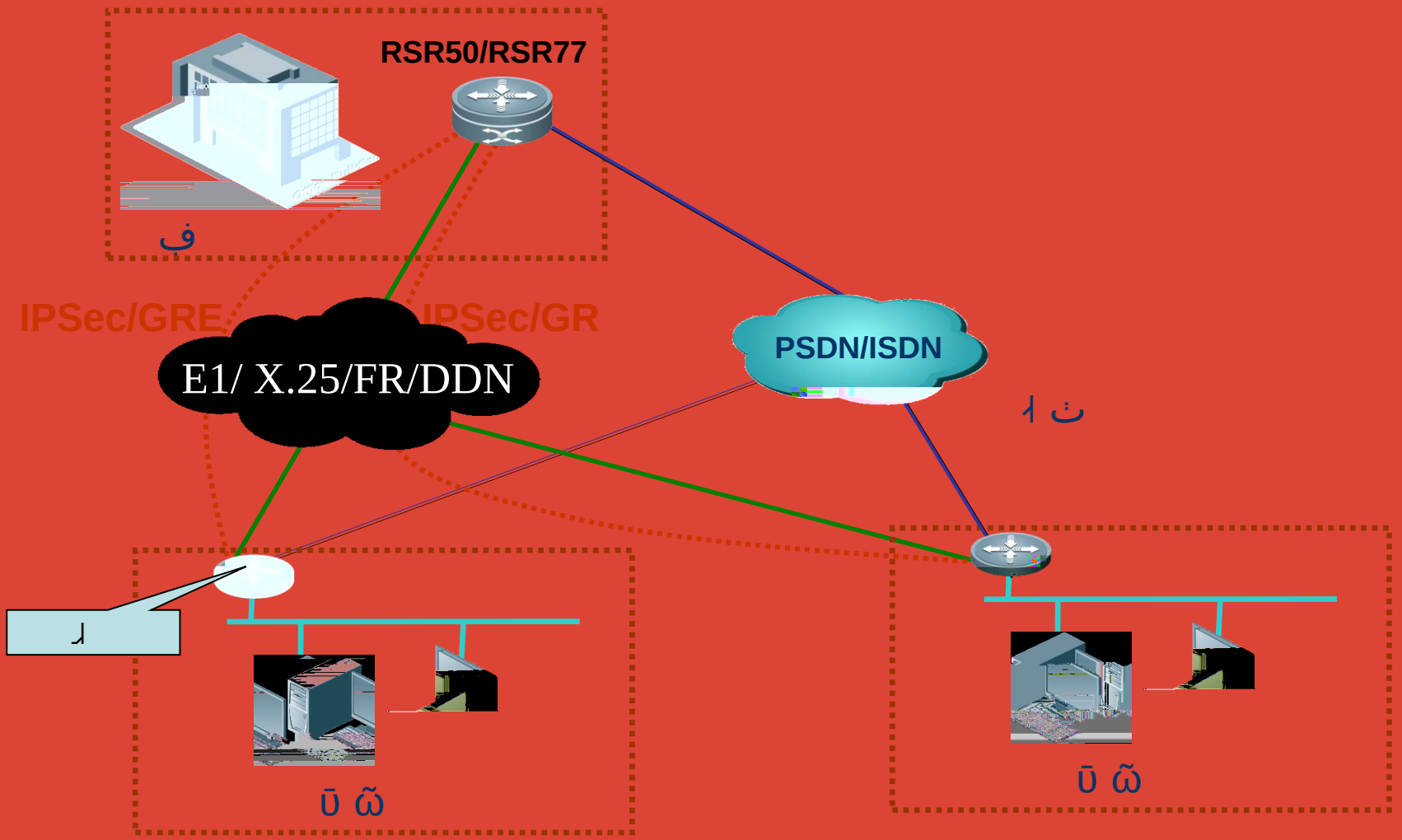



Internet
Internet



3G BFD TRACK IPSEC /RIP/OSPF

AAA SNMP


RSR50/RSR77
IPSec/GRE
IPSec/GR
E1/ X.25/FR/DDN
PSDN/ISDN

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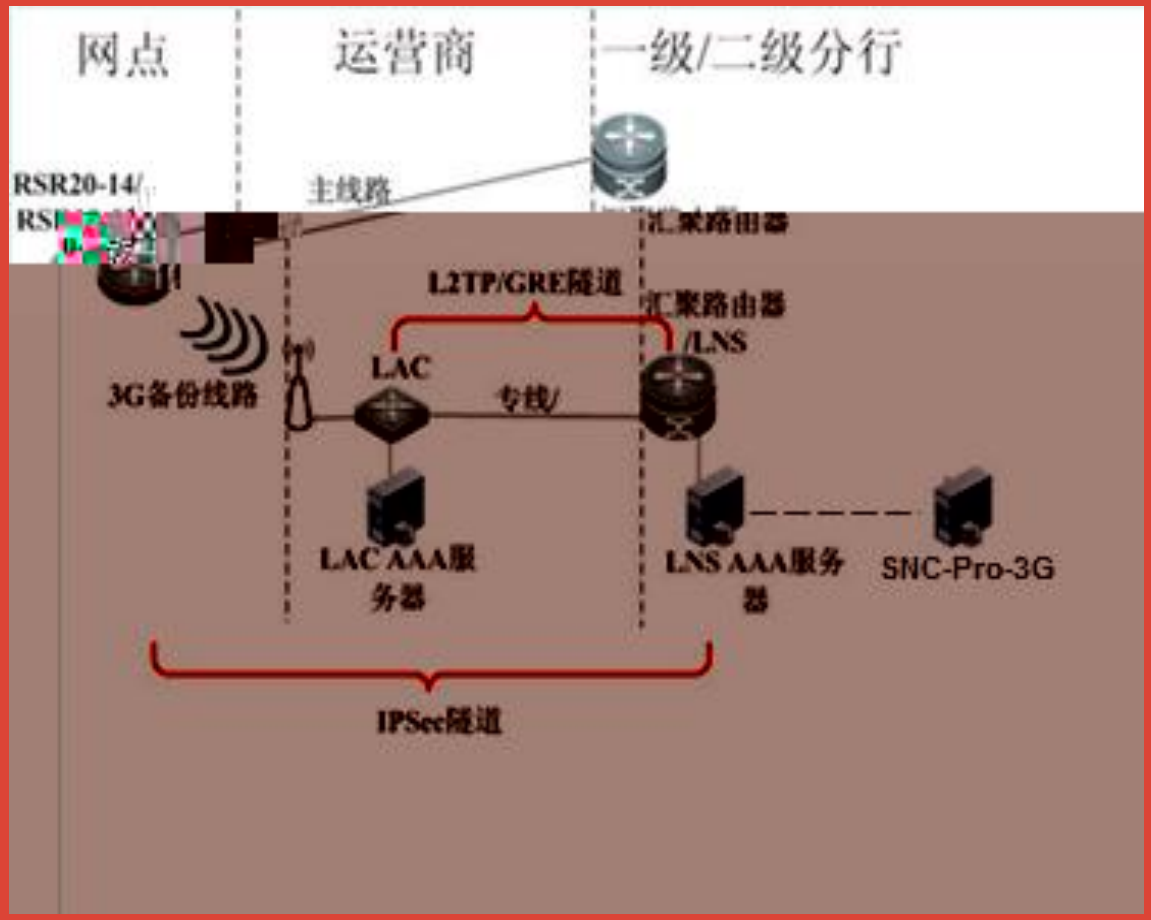
网点
运营商
一级/二级分行
RSR20-14/
主线路
L2TP/GRE隧道
汇聚路由器
/LNS
LAC
3G备份线路
专线/
LAC AAA服务器
LNS AAA服务器
SNC-Pro-3G
IPSec隧道

• ﺒ ﻝ ﺒ ﭖ ﺭ RSR20-14E ﻝ ﺒ ﺙ ﺍ ﭖ ﺭ ﺍ MSTP+ ﺍ 3G
ﺍ ﺙ MSTP ﺍ ﺙ ﭖ ﺭ QOS - 3G ﺍ
ﺙ ﻝ ﺭ ﻅ ﺡ VPDN ﺍ ﭖ ﺭ IPSEC+SM1 ﻝ |

ﺍ ﻝ	ﺍ ﺏ ﺢ	↕
₩	VLAN SVI	ă
3G	3G ﺝ ﺙ ﭖ ﺭ ﺱ ﺙ ﺍ ﺩ 3G ﺱ ﻝ ﻑ IP ﺍ LNS ﺱ ﺏ ﺒ ﻝ keepalive ﻟ	
IPSEC	ﭖ ﺭ ﺃ ﺓ SM1 ﻝ | ﺒ ﻝ DPD ﻟ	
ﺙ ﺍ ﻩ	ﭖ ﺭ OSPF+ ً ﺙ ﺍ	
DLDP	MSTP ﺝ ﺙ ﻟ	
QOS	MSTP ﺍ ﺙ ﭖ ﺭ LLQ+CBWFQ ﻙ	
ﺒ ﻝ	ﻙ ﻝ ﺍ ﺙ ﻝ telnet ﻕ ﺕ IP	ă
	AAA/SNMP/ACL ﺵ ﺯ /ACL ﮒ ﺑ ⅜ ﻝ ﺯ	ﺭ ﺒ ﻝ

IPSEC

```
ip access-list extended 100                    //  ﺏ ﻟ IPSec      ﺭ      ﷺ
 10 permit ip 10.0.0.0 0.0.0.255 22.144.20.0 0.0.0.255
!
crypto isakmp policy 1
 authentication pre   -share
!
crypto isakmp keepalive 10 2                   //  ﺏ ﻟ DPD   ﷺ
crypto isakmp key 7 06576c507b4044 address 21.147.251.130
crypto ipsec transform   -set myset  esp -sm1   //   ﺓ SM1 ﻝ │    ﺭ
crypto map mymap 1 ipsec   -isakmp
 set peer 21.147.251.130
 set transform  -set myset
 match address 100
!
interface Async 1
 crypto map mymap                              //                  ﺓ
!
```

Contents

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KOA

3G .doc

2.0 3G

RSR SIC-3G .doc

RSR SIC-3G V1.0.zip

RSR .doc

RSR .doc

RSR20 V1.2.doc

RSR20

RSR .doc

RSR 2.0.rar

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E-Mail: xxx@ruijie.com.cn