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|---|---|---|---|
| 2012-06 | V1.0 | | |
| 2015-03 | V1.1 | | |
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# Contents


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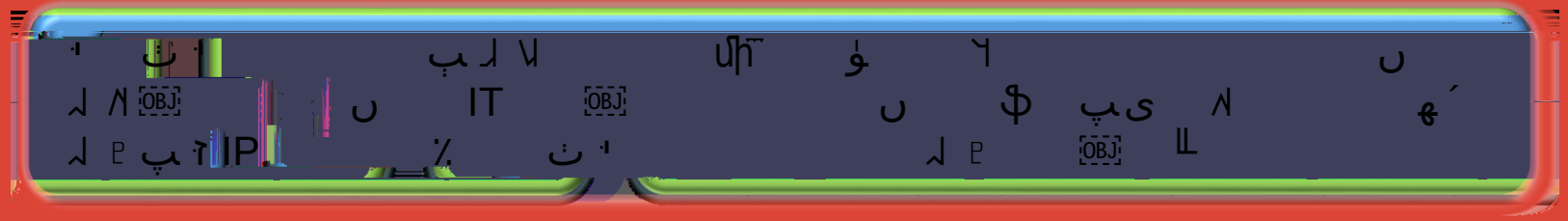

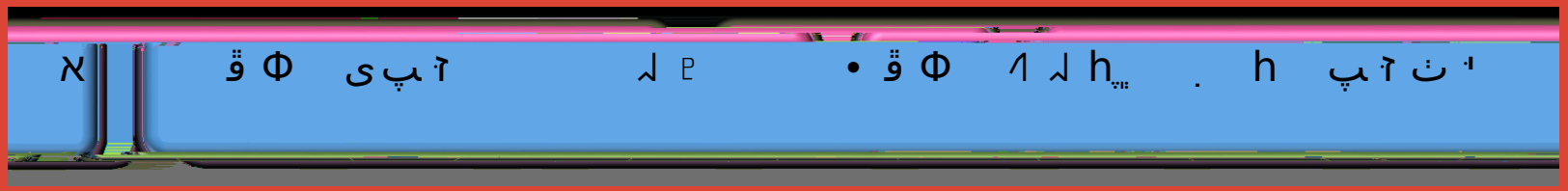

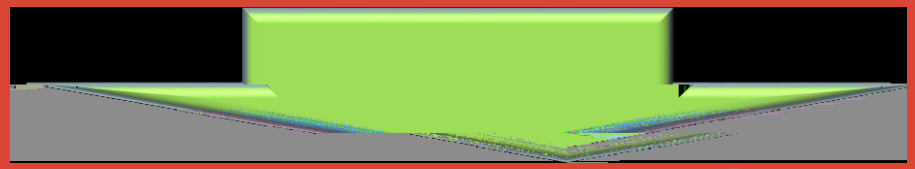

RSR20
RSR20-14E/F

MSTP

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# RSR20-14E ‰

| ° ´ | RSR20-14E |
|---|---|
| ʎ ɹ ʇ ʎ | 1 Console 1 AUX 1 USB 1 SD 1 ɿ ʎ ʇ 24 10/ 100 ʎ 2 ɔ 2 SFP 2 ɔ ɿ |
| SIC Rs | 4 ɿ ⁞ ɹ ʅ ɹ ʇ 4 SIC |
| BOOT ROM | 8MB |
| NAND FLASH | 128MB |
| DDR II | 512MB |
| (W×H×D) | 440mm×43.6mm×300mm (1U) |
| ʒ ɔ | AC100 240V 50~60Hz |
| ǟ | 50W |
| ʊ □ | 0 45 |
| ʊ □ | -40 70 |
| ► | 10 95%RH |

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

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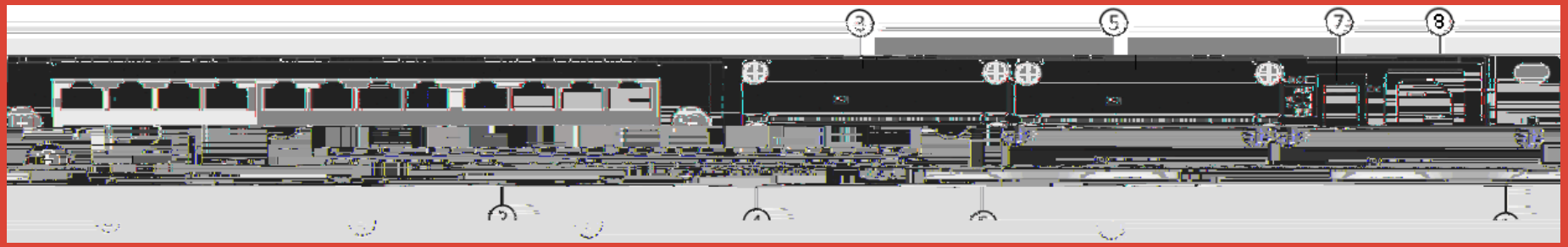


| | | | |
|---|---|---|---|
| 1 | SLOT2 | 2 | SLOT3 |
| 3 | SLOT4 | 4 | SLOT5 |
| 5 | SLOT6 | 6 | |
| 7 | | 8 | |

# RSR20-14E/F₩ ⅄

- 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

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ǎ RSR20 OBJ SIC ṗ Rs ᴗ ɪ Rs ʒ ‰

├ ⅛ Rs ǐ OBJ ㄧ SIC Rs ㄧ OBJ SIC

SIC ˉ ㄧ ˊ f

| 类型 | RSR20-14E 支持的 SIC 线卡 |
|---|---|
| A 类 | SIC-8A、SIC-4B-H、SIC-4B-S/F、SIC-2EX2、SIC-2EXC、SIC-SEC 加 |
| 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 |

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

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  ﺍ ﺑ ₩ ﺳ
- ﺍ ﺑ OBJ ﺍ ﺑ OBJ 7
- ₩ ﺍ ﺑ ﻻ ﺍ ﺃ SVI

4 ﻋ

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

NMX-24ESW ﻻ ﺃ

- ΐ ﺕ ﺍ ﺑ ﻭ ﻳ ﺍ ﺑ ΐ ﺍ ﺑ
  ﺕ ﺍ ﺑ ﻭ ﻳ ﻫ
- NMX-24ESW ΐ RSR20-14F ﻫ ﺍ ﺑ ﺃ SVI
  ﺍ ﺑ
- RSR20-14F ﻫ RSR20 ﺃ OBJ ﺃ OBJ ﺃ OBJ ﻫ
  RSR20 ﺃ service-module fastEthernet 2/0 session
- RSR20-14F ؟ ﻻ ﻭ ﻳ ﻫ ﻟ ﻗ
  ﺃ OBJ ■ . ﻻ ﻭ ﻫ ﻳ ﻫ ﻛ RSR20 ﺍ ﺕ
  ﺃ ﻳ V1.2.doc

# ₩ ﻟ ﺑ

## ₩ ﻟ ﺑ ﺃ

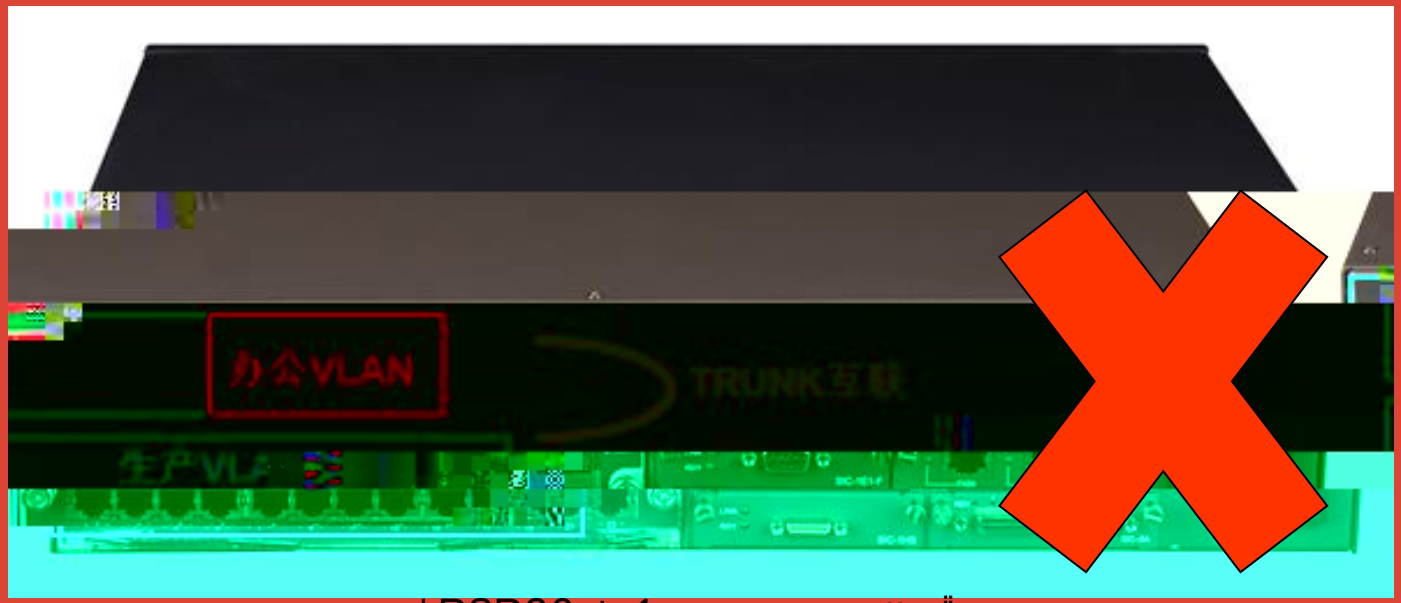
vlan
Ruijie(config)#vlan 2
Ruijie(config-vlan)# name ﺗ ﻟ
Ruijie(config-vlan)#!
Ruijie(config-vlan)#vlan 3
Ruijie(config-vlan)# name ﻫ ﺇ ﻘ
Ruijie(config-vlan)#!
Ruijie(config-vlan)#vlan 4
Ruijie(config-vlan)# name ﺇ ﺍ

ﺍ 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 ﻟ ﺑ

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

4 ڀ ڈ ڃ ڈ ٥ ف ٨ trunk ٧ ٨ ٧ ٨

- ۃ RSR20 VLAN ٹ ٮ




ۂ ٮ ٨ ف RSR20 ٨

ۃ RSR20 ٹ ٮ ٤ V1.2.doc

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- VLAN/TRUNK
- ǐ AP
- ᴵ IP ᴵ
- ᴵ ھ ں
- 802.1X ɲ -
- ᴵ ʺ

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- ᴵ ᴵ ث ᴵ
- ᴵ ᴵ
- RLDP
- IGMP SNOOPING
- ACL

REF ΐ́

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Show cpu ´H

show cpu چ ₩ ٦ OBJ CPU° ◊ ڤ Φ ⅄ ɯ ' ـ ⌊ چ ° ◊ OBJ ⅄ ɯ

ڝ ڼ ⅄

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

0 ڈ چ ° ◊ OBJ ⅄ ɯ
1 چ ° ◊ OBJ ⅄ ɯ

↕ چ ڇ ´Ω Ω ن ⅃ ⅂ ڇ show cpu ڇ Pts Ч پ
ن ⅃ ⅂

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

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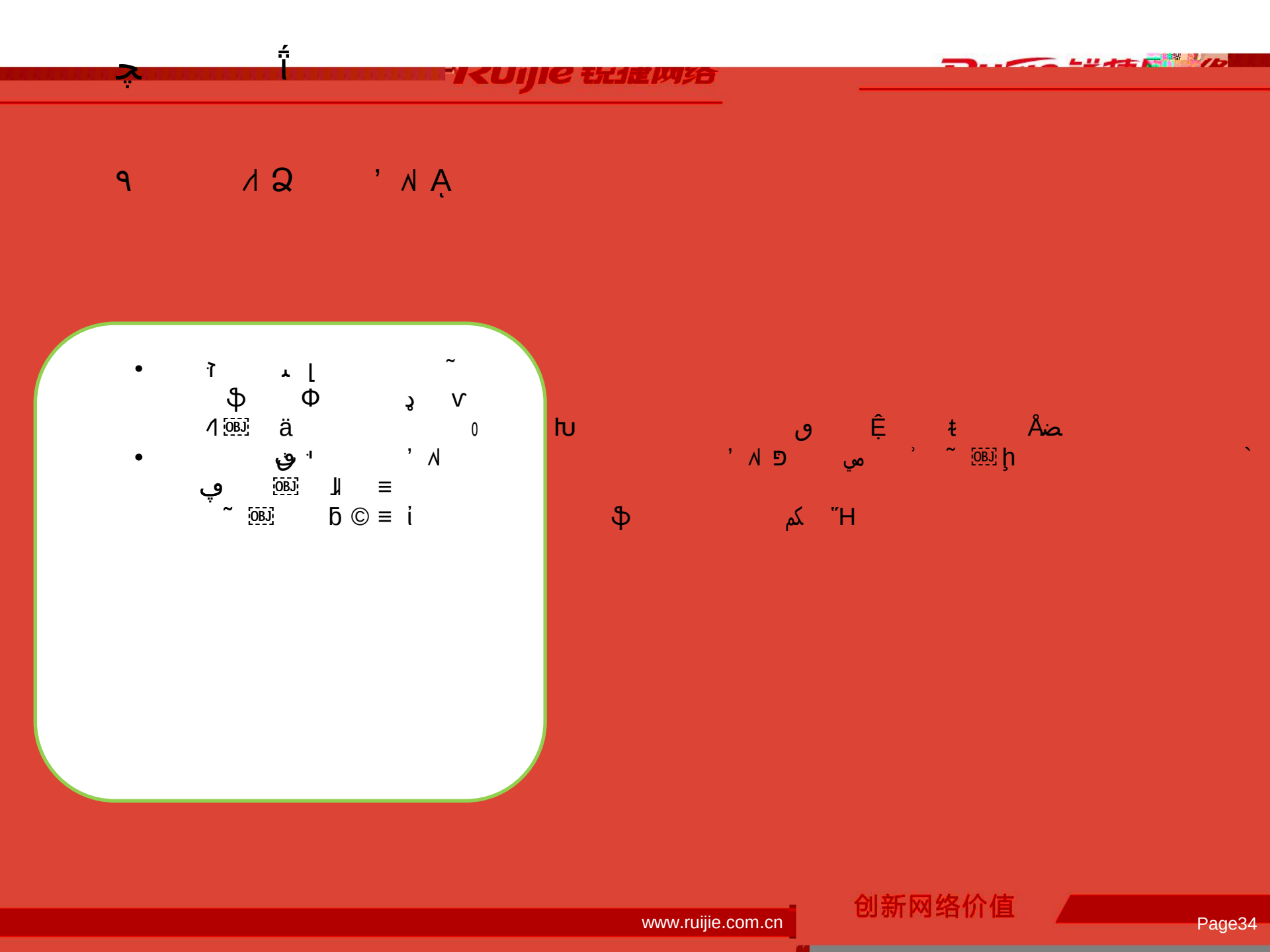
20-14E/F ˧ ˦ FPGA א cpm ΐ FPGA א ע ע

ℓ loopback DTE˥ ΐ Φ ⅋ ⅃ ⅂



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Ruijie 锐捷网络

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گ گ̈CPU ت OBJ ˥ ˥ ڤ Φ ں ھ ت ژ گ Ᵽ ي گ̈
CPU ت ٣ CPUح ä̈ چ OBJ ˥ ں ھ

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˖ ˛ ˄ ں ھ ˂ * أ́ OBJ ں ھ ä̈ * OBJ چ
⅝ * OBJ ɑ ˛ گ̈CPU ت ڼ OBJ ˄ ˄ ˂ ˄ OBJ لا
□ أ́ ڻRSR77 ϕ س ɲ گ ڈ أ́

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- ي گ̈CPU ت ˃ CPUح OBJ
- ˄ ˂ أ ɵ ˄ ˂ ˂ ˂ ۵ ˂ ˂ ˂ ک ˂ ˂ گ Ᵽ ˖
⅝ أ ɵ ⅛ ˅* ARP 10 ۵ ˂ ˂

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

گ

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```
control-plane
!
control-plane protocol
 no acpp        //  ء  ھ ' ھ ں
!
control-plane manage
 no port-filter  //ص ▬                    OBJTCP
          UDP
 no arp-car    //arp ھ ں
 no acpp
!
control-plane data
 no glean-car   //  ٮَ ف ٮ ' ا
          IPOBJ
 no acpp
```

```
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
```

# אָ Contents


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- ⅃ ⅄ # ⅃ ⅄ ⅃ ⅄ ↑ OBJ h
- ⅃ ⅄ $ ⅃ ᴉ # ⅃ ⅄ $ ⅃ ᴉ ■ OBJ ⅃ ⅄ ق Φ
- ⅃ ⅄ $ OBJ ج ث ف ↑ # ⅃ ⅄ ⅃ OBJ ج ث ↑ ɲ
- ⅃ ⅄ $ OBJ ث ᴉ # ⅃ ⅄ ⅃ OBJ ث ᴉ ɲ h ث ᴉ ⅄ ↑ ث ᴉ ˎ ؤ ⅃
- ip h # ⅃ ⅄ ↑ h OBJ ج ث ᴉp
- OBJ ٦ ⅃ ↑
- ≠ e ĩ OBJ ⅃ ɹ ∂ NAT QOS 3G ⅃

- 𐬀 𐬛𐬀𐬵 𐬌𐬀
- 𐬎 𐬌𐬀𐬵 𐬎
- 𐬌𐬀𐬵 𐬎

- 𐬀 𐬛𐬀𐬵 𐬌𐬀
- 𐬎 𐬌𐬀𐬵 𐬎
- 𐬌𐬀𐬵 𐬎

- 𐬀 𐬛𐬀𐬵 𐬌𐬀
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- 𐬀 𐬛𐬀𐬵 𐬌𐬀
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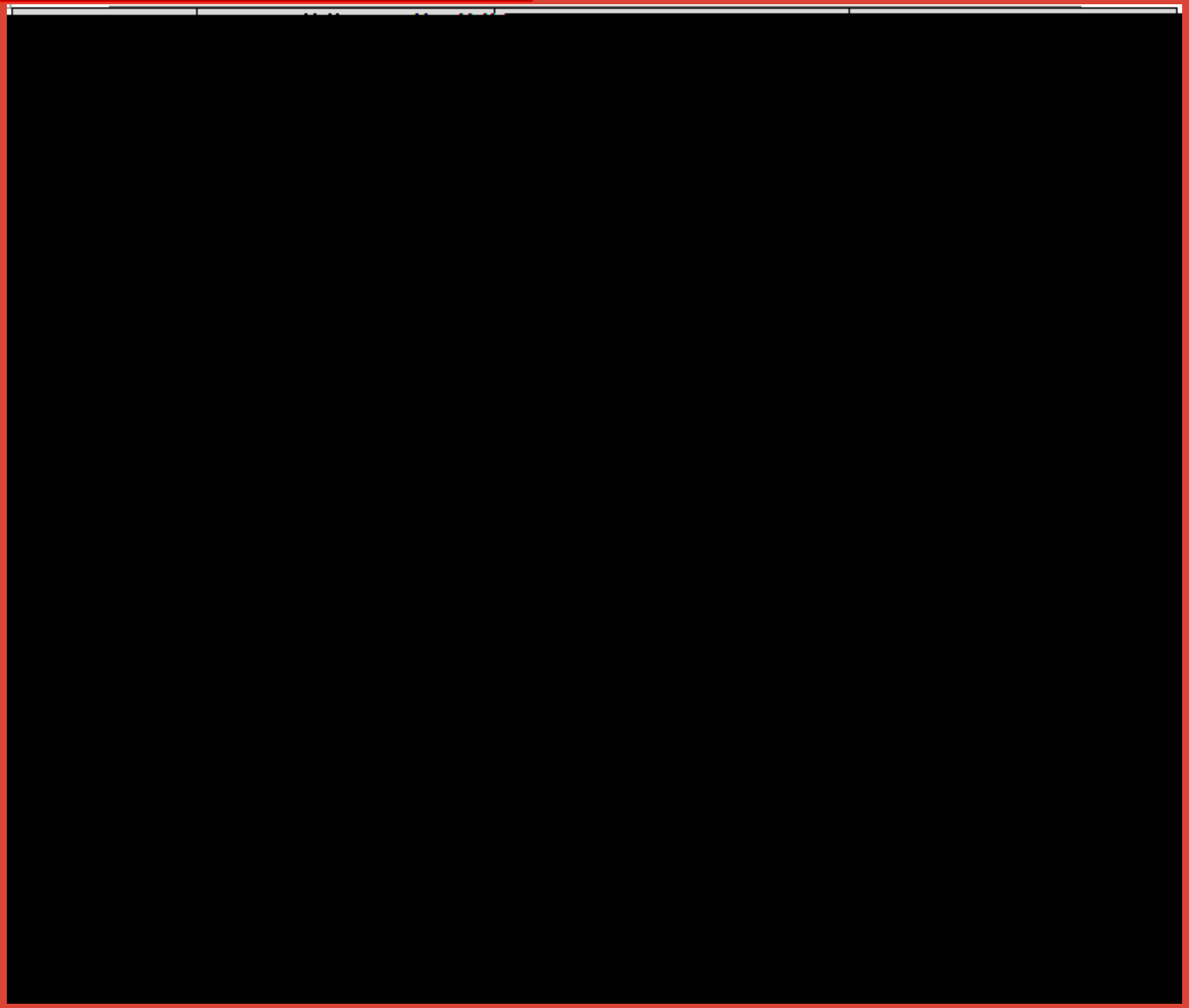

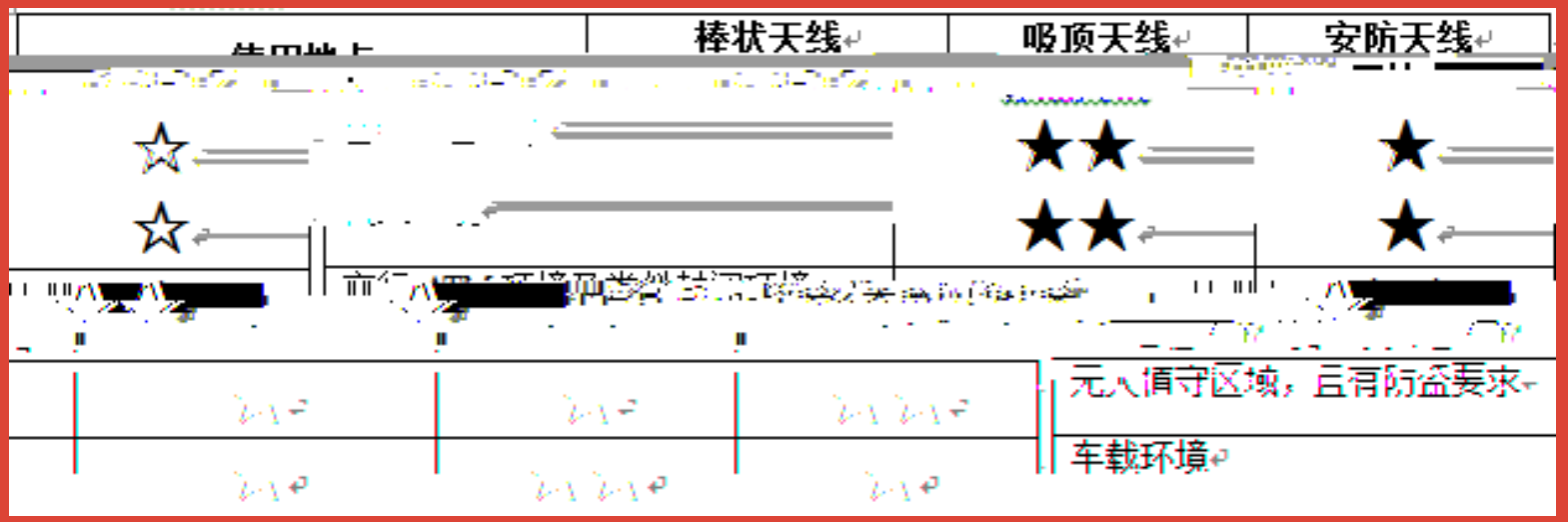


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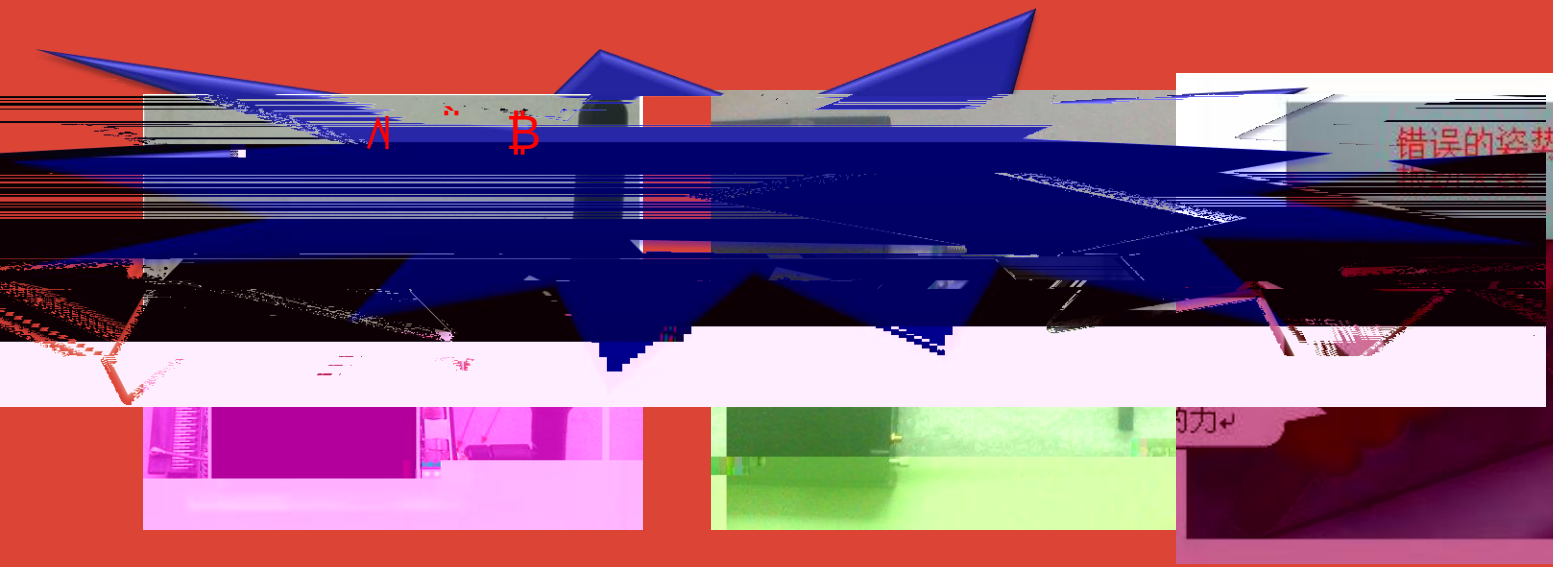
A
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C
错误的姿势！禁止纵向

- 丬 丬 ´ 上
- 丬 SICRs OBJ 8 ↑ 丬 ﭘ ٧ %
  ɲ Rs OBJ 8 ↑ 丬 V 90 ư 上
  ʟ 丬 ´ ǟ ↕ 上 3G چ ﭘ

3G

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|---|---|---|---|
| ت ا OBJ ٧ | ت ا ٧ | ڍ | ٦ rgos.bin |
| ٨ \| ٦ | rgos.bin | صڼ tftp | ڢ | rgos.bin |
| ڀ ڢ | ٧ | ٨ ؤ ٦ OBJ ٨ | \| | ├ | ° | ڒ |
| RSR٧ ت ا | ٨ | .doc | | | | |

₩ OBJ ٨

| | | | |
|---|---|---|---|
| ت ا OBJ ڢ ڠ | ٧ | ₩ | ت ا |
| ٧ OBJ ₦ | ـ | ٨ ت ا | ٧ |

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- ً

## NMX-24ESW ٨ ٨

## SIC-3G ٨

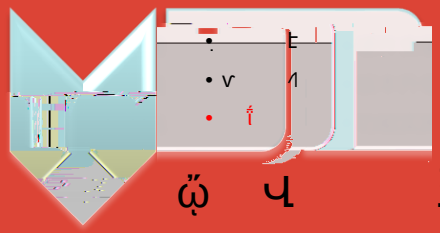
SIC-3G ؤ v ث ٠ ٨ ب ğ ء ب ٦ أً
ڈ ئ ٨ ک ح releasenote n * . SIC-3G ؤ v ٨
| ٦ xmodem tftp

- 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+ ⅄ ⅃

- ⊢
- ⅴ ⅄
- ⅂

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⅄ + ipmacbind

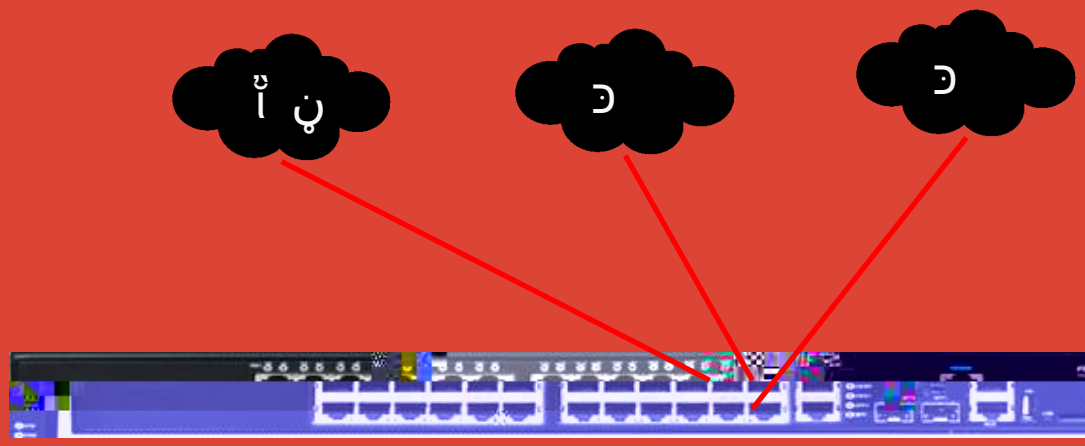
+SVI ACL

- ⅄ ⅃ MAC+ ⅄
- Ipmacbind ⅃ IP MAC

RSR20-14E/F

3 MSTP

- vlan
- vlan SVI



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创新网络价值

# Contents


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# RSR20 [illegible]

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VPN

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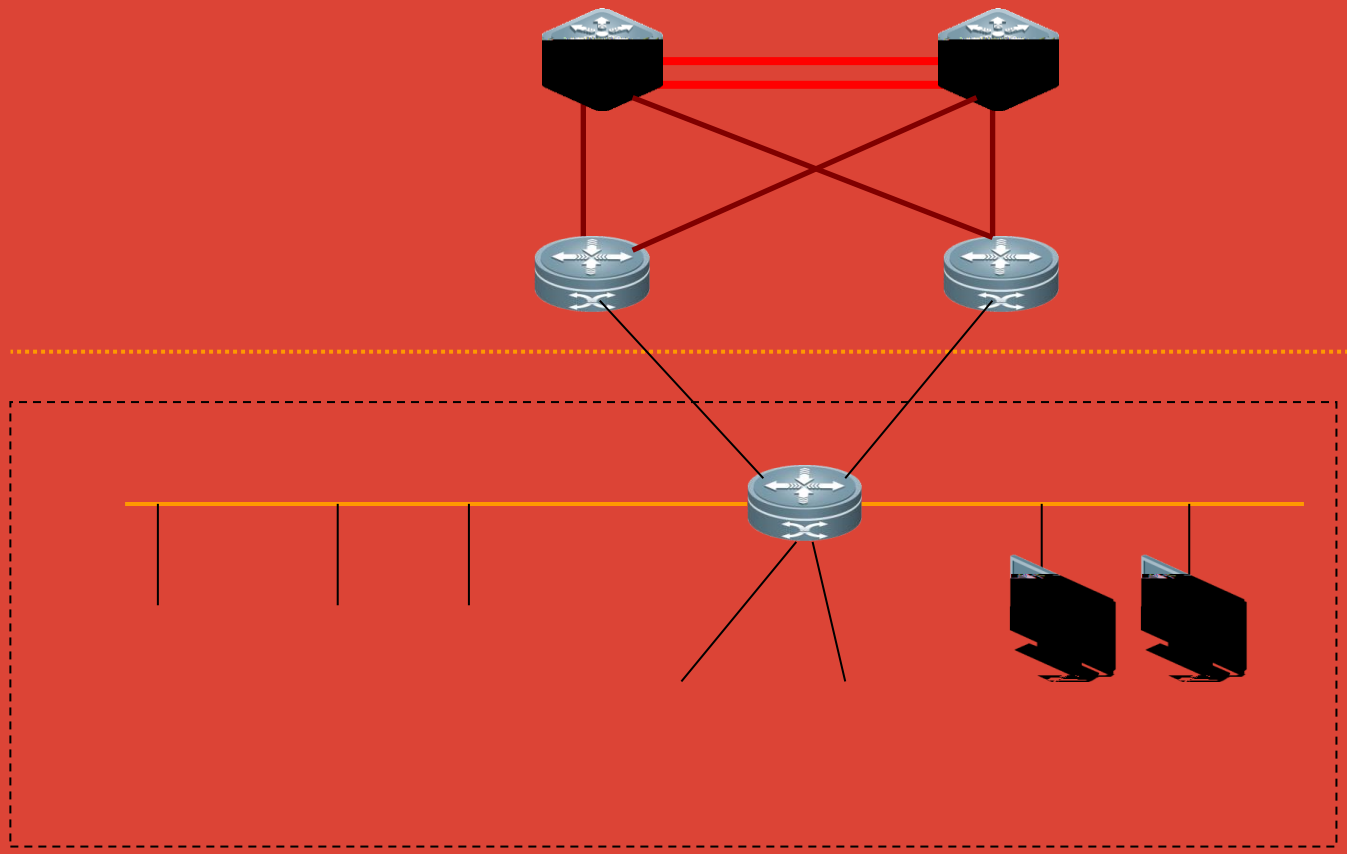
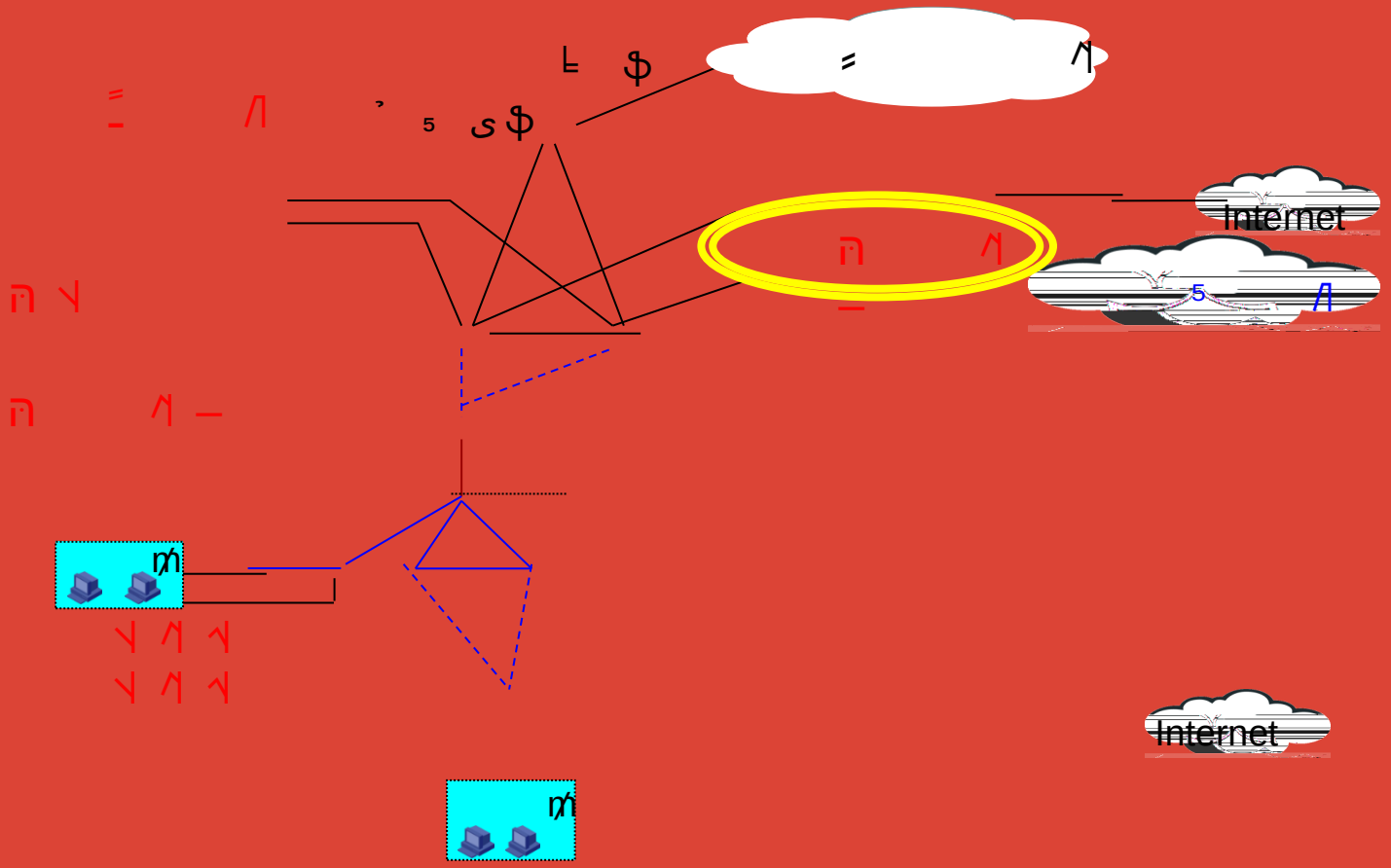
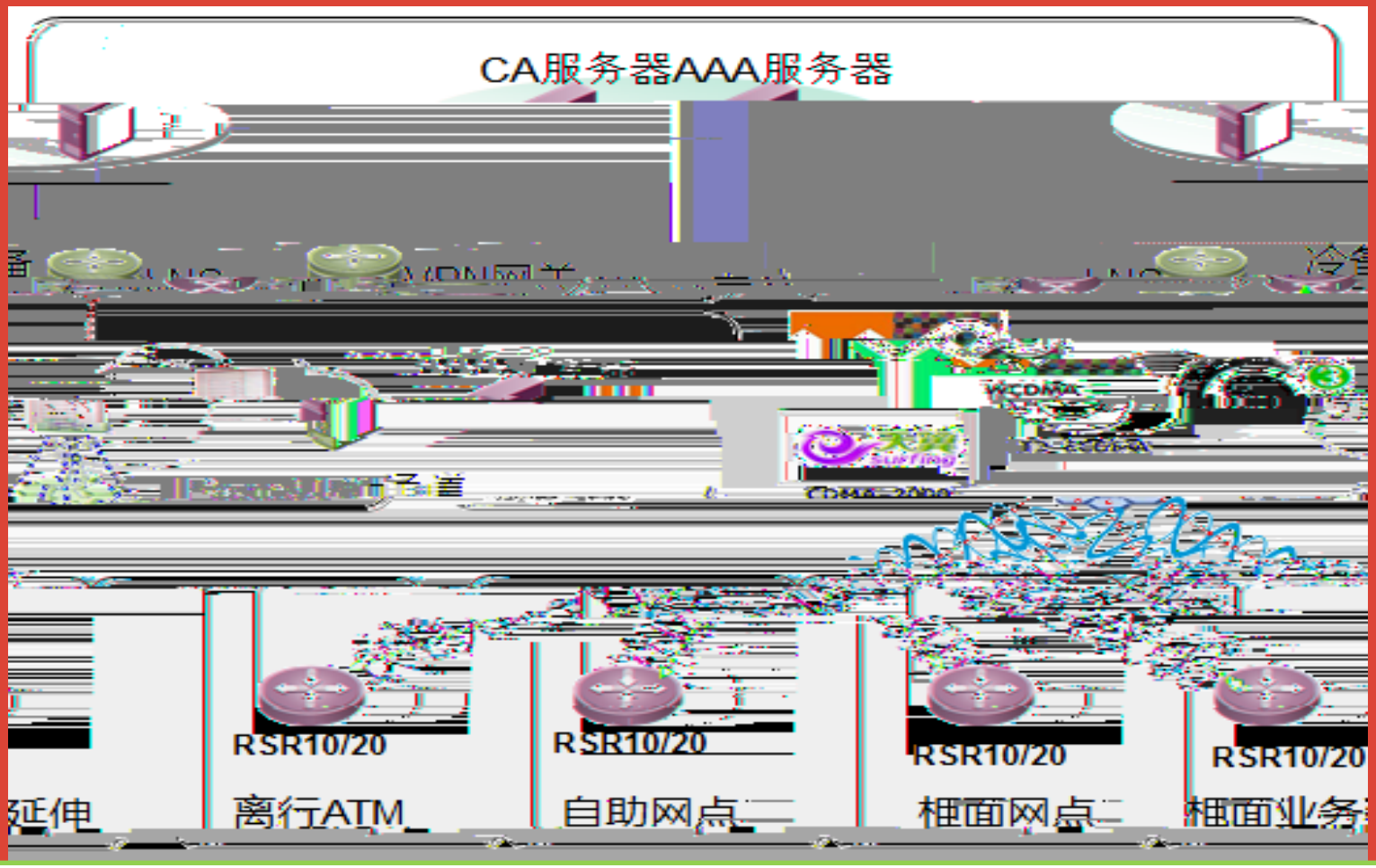
[illegible] 3G [illegible]

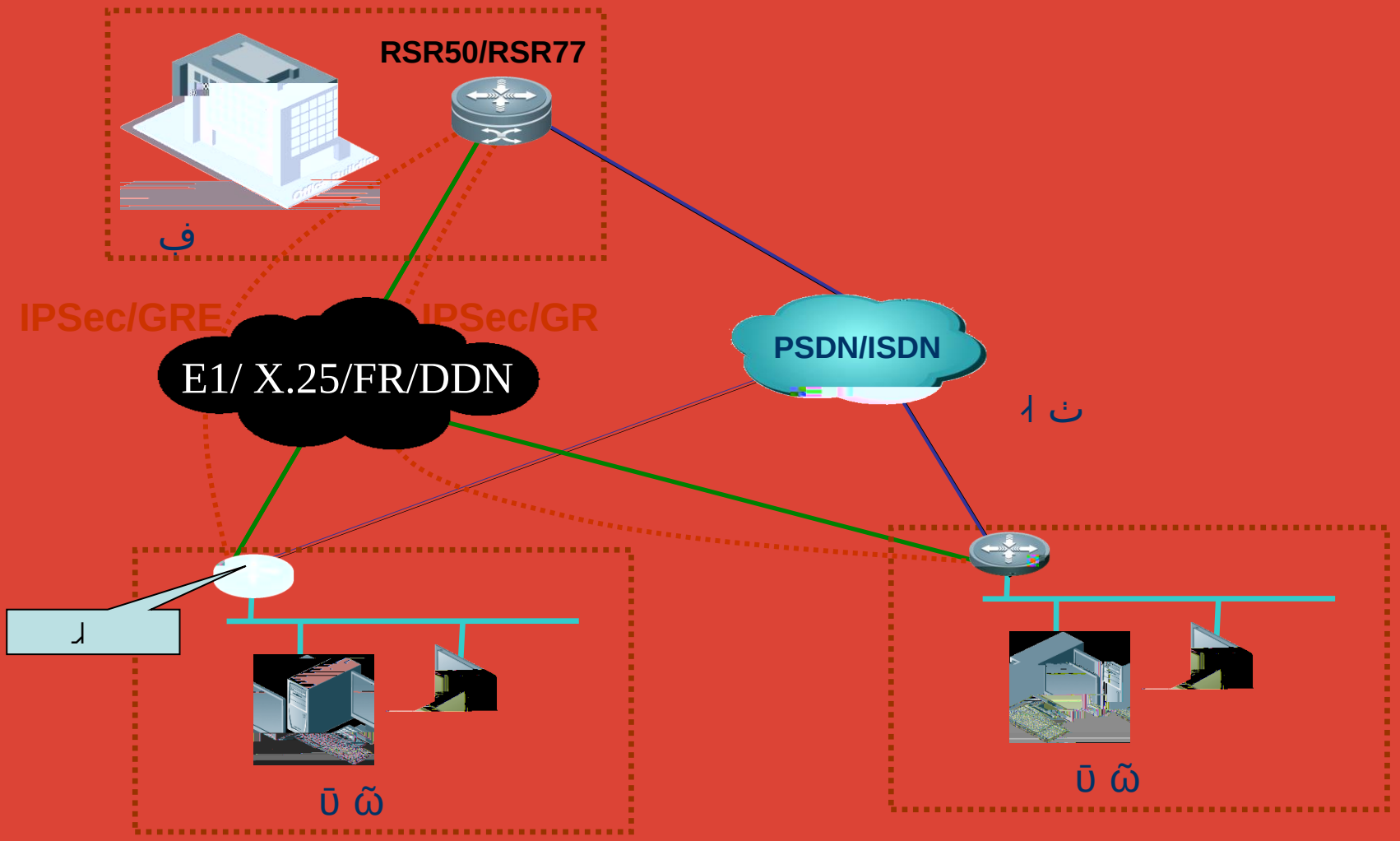



Internet
Internet




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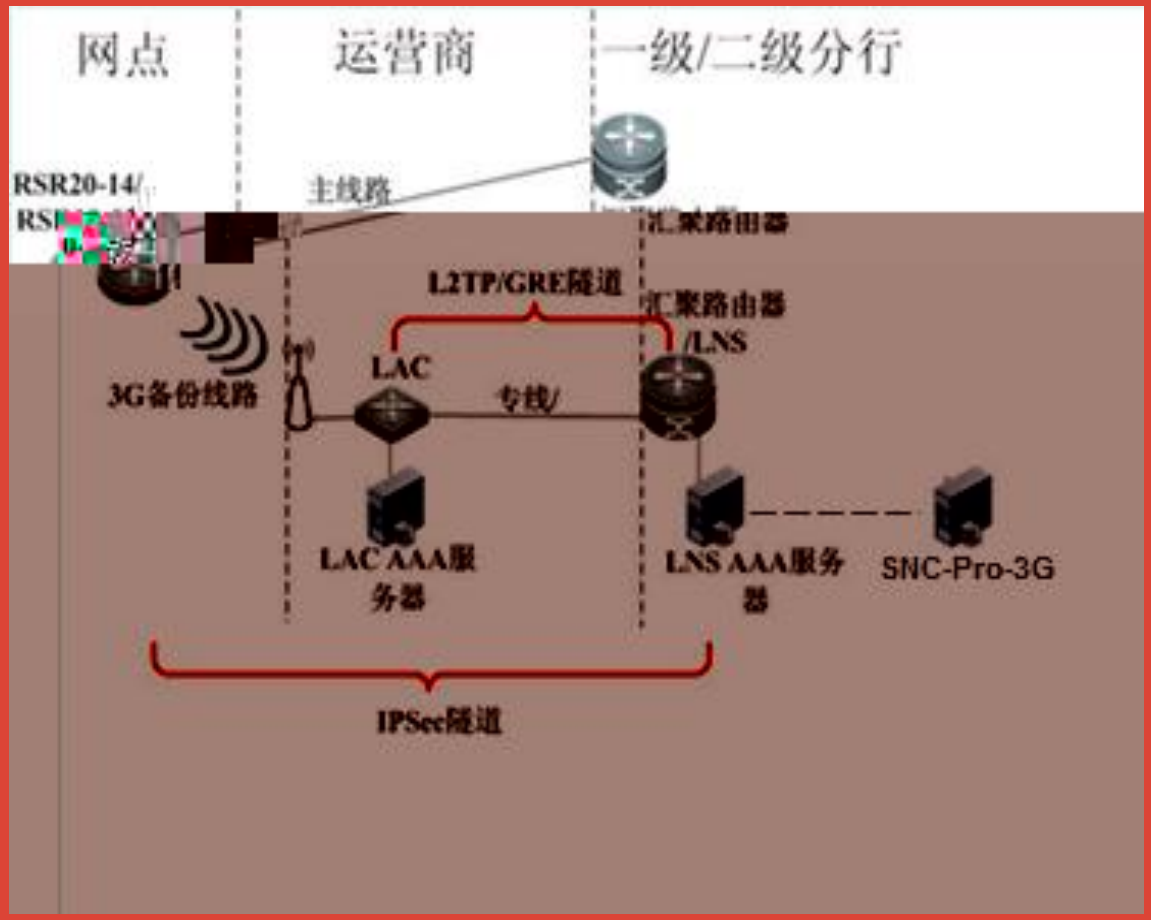
网点
运营商
一级/二级分行
RSR20-14/
主线路
L2TP/GRE隧道
汇聚路由器
/LNS
LAC
3G备份线路
专线/
LAC AAA服务器
LNS AAA服务器
SNC-Pro-3G
IPSec隧道

# ⅃ ᴾ 3G ᴗ̧ ⁇ ⁇



- ⁇ ⅃ ᴾ ⁇ RSR20-14E ⅃ ᴾ ⁇ ⁇ ⁇ ⅃ MSTP+ ⅃ 3G⁇
  ⅃ ⁇ MSTP ⅃ ⁇ ⁇ QOS ⁇ - 3G ⅃
  ⁇ ⅃ ⁇ ⁇ VPDN ⅃ ⁇ IPSEC+SM1 ⅄ |

| ⅃ ⅄ | ⅃ ⅂ ⊂ | ↕ |
|---|---|---|
| ₩ | VLAN SVI | ⁇ |
| 3G | 3G ⁇ ⁇ ⁇ 5 ⁇ ⁇ ⁇ ⊃ 3G 5 ⅄ ⁇ IP ⁇ LNS 5 ⁇ ⁇ ⅃ keepalive ⅃ | |
| IPSEC | ⁇ ⁇ ⁇ SM1 ⅄ \| ⅃ DPD ⅃ | |
| ⁇ ⁇ ⁇ | ⁇ OSPF+ ⁇ ⁇ ⁇ | |
| DLDP | MSTP ⁇ ⅃ | |
| QOS | MSTP ⅃ ⁇ ⁇ ⁇ LLQ+CBWFQ ⅄ | |
| ⅃ ⅂ | ⁇ ⅄ ⅃ ⁇ ⊥ telnet ⅂ ⁇ IP | ⁇ |
| | AAA/SNMP/ACL ⅃ ⅄ /ACL ⁇ ⁇ ⅄ ⅃ ⅂ ⅃ | ⅃ ⅂ ⅃ |

## IPSEC

```
ip access-list extended 100                    //  ㄦ ㄓ IPSec  ㄕ  ㄦ
 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                   //  ㄦ ㄓ DPD  ㄦ
crypto isakmp key 7 06576c507b4044 address 21.147.251.130
crypto ipsec transform  -set myset  esp -sm1   //  ㄔ SM1 ㄟ ㄧ  ㄅ
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                              //                ㄔ
!
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# 谢谢 | 创新网络价值


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