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

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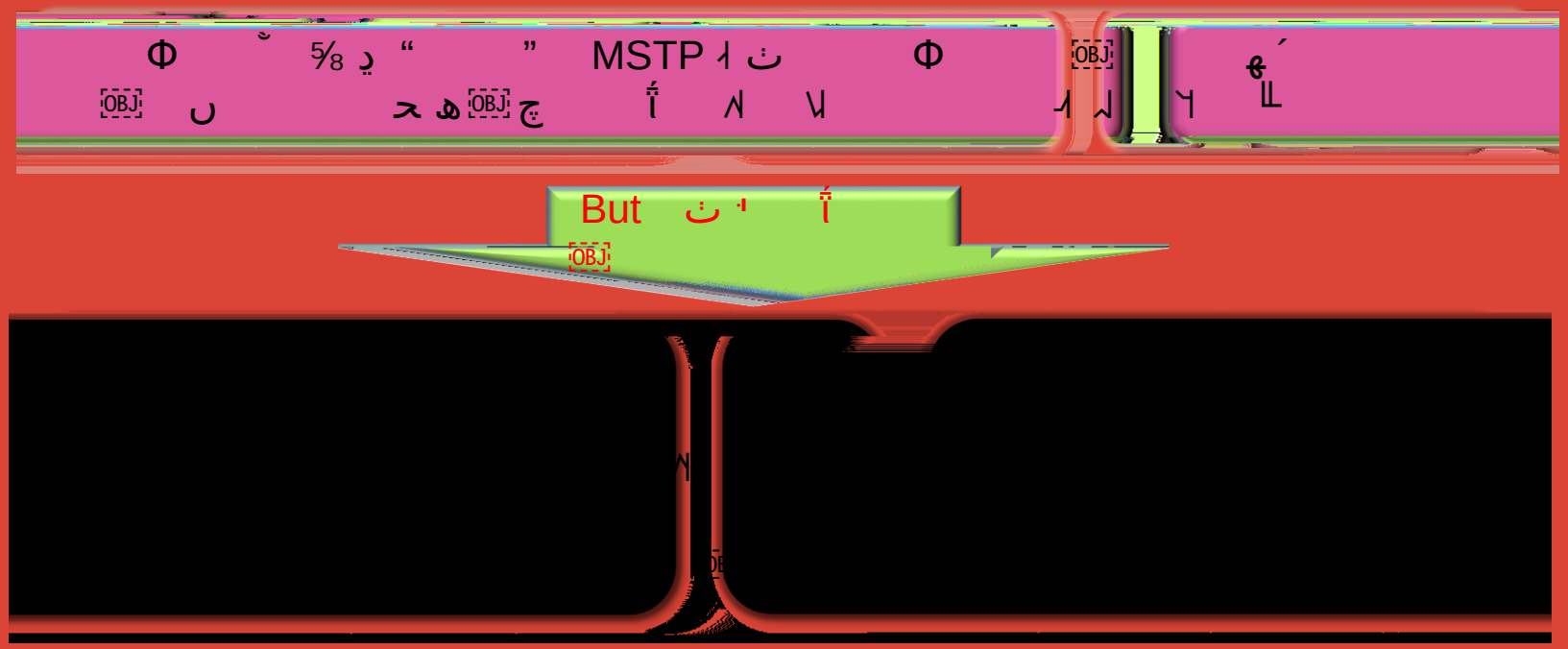
RSR20
RSR20-14E/F


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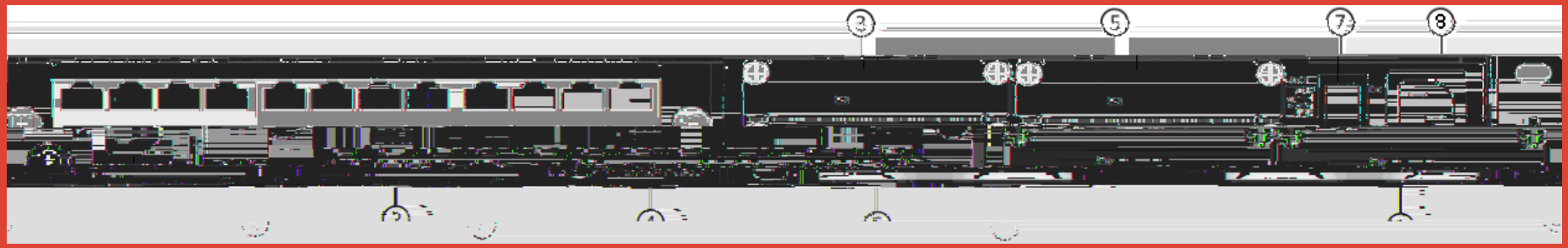
° ´	RSR20-14E
ڶ ب ل	1 Console 1 AUX 1 USB 1 SD 1 ۃ أ ۼ 24 10/ 100 ل 2 ɔ 2 SFP 2 ɔ ۃ
SIC Rs	4 ۃ ⋮ ـ ا ب ل 4 SIC
BOOT ROM	8MB
NAND FLASH	128MB
DDR II	512MB
(W×H×D)	440mm×43.6mm×300mm (1U)
ڑ ɔ	AC100 240V 50~60Hz
ǎ	50W
ע □	0 45
ע □	-40 70
►	10 95%RH

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 ﾉ

- 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

ﾉ [OBJ] ﾋ ﾂ ﾟﾑ ﾋ

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

₩ بـ ـلـ ؟

vlan

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

ˆ vlan

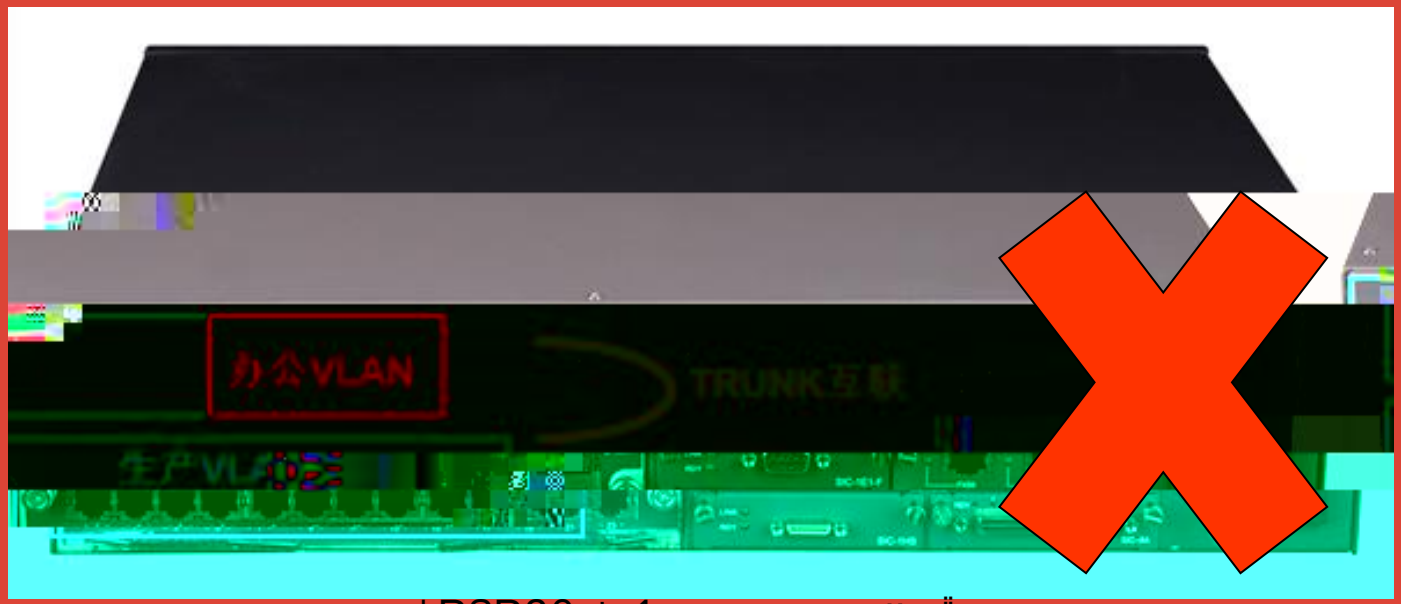
```
Ruijie(config)#interface fastEthernet 1/0
Ruijie(config-if)#switchport access vlan 2
Ruijie(config)#interface fastEthernet 1/1
Ruijie(config-if)#switchport access vlan 3
Ruijie(config)#interface range fastEthernet 1/2
- 4
Ruijie(config-if-range)#switchport access vlan
4
//      range[OBJ]بـ ـلـ
```

SVI

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

4 پ ڑ ڊ ڋ ٥ ف ٨ trunk ٧ ٨ ٧ ٨

- ğ̈ RSR20 VLAN



ٮ RSR20 ف ٨ ۑ ق

ğ̆ RSR20ت ٠ Ăˇ ٭ V1.2.doc

⁴ ᵘ ⅄

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

⁴ ᵑ ᵘ ⅄

- ᔑ ⅃ ᵔ ᵗ
- ⅄ 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 ڎ 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

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- ۲ ۱ ~
  ۷ ۶ Φ ϕ
  ۸ OBJ
- ۱ ن
  ≡ ۸ OBJ ف
  ~ OBJ

˝ ¡ 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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- ٨ ل ⇂ ب ل # ٨ ل ⇂ ب ل ■ OBJ ٨ ل ق Φ
- ٨ ل ⇂ OBJ ف ث ج ↑ # ل ٨ ل OBJ ج ث ↑ ɲ
- ٨ ل ⇂ OBJ ث ◦ # ل ٨ ل OBJ ث ◦ ɲ h ث ◦ ٨ ↑ ث ◦ ً ؤ ل
- ip h # ل ٨ ↑ h OBJ ج ث ⇂ip
- OBJ ٦ ١ ↑
- ≠ e ĩ OBJ ل ɹ ∂ NAT QOS 3G ٧

版本发布

- 概述
- 版本发布
- 版本升级

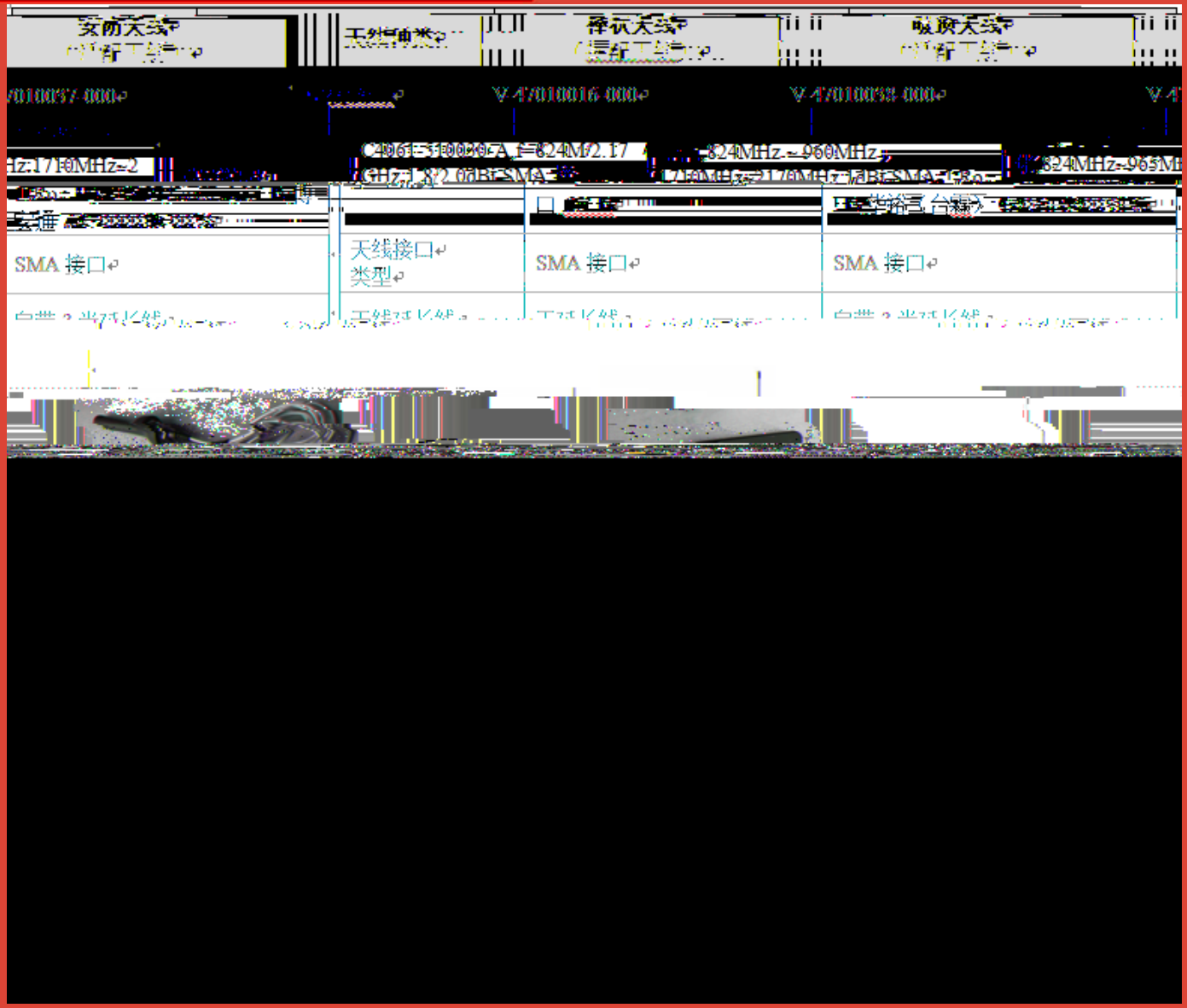
概述

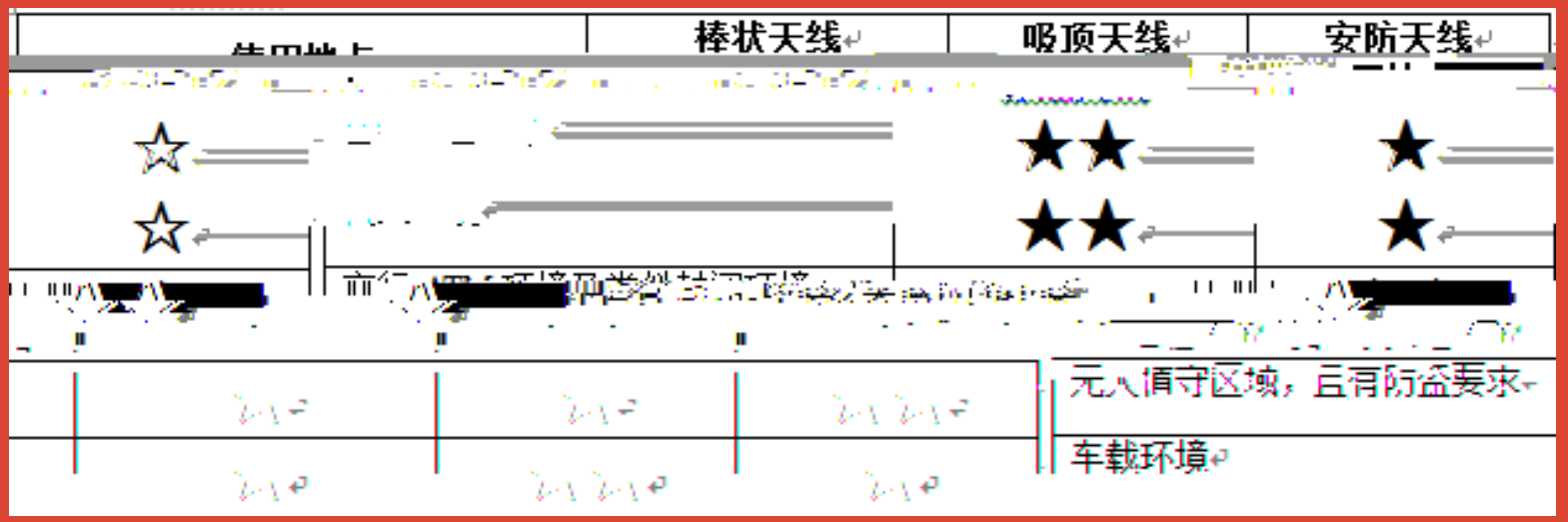
- 版本发布是指将产品的软件版本以及相关的文档资料发布给用户的过程。

- 概述
- 版本发布
- 版本升级

版本发布

- 版本发布时，需要提供releasenote文档、PPT等资料，以便用户了解版本的特性、升级方法等信息。


SMA 接口
天线接口类型
SMA 接口
SMA 接口



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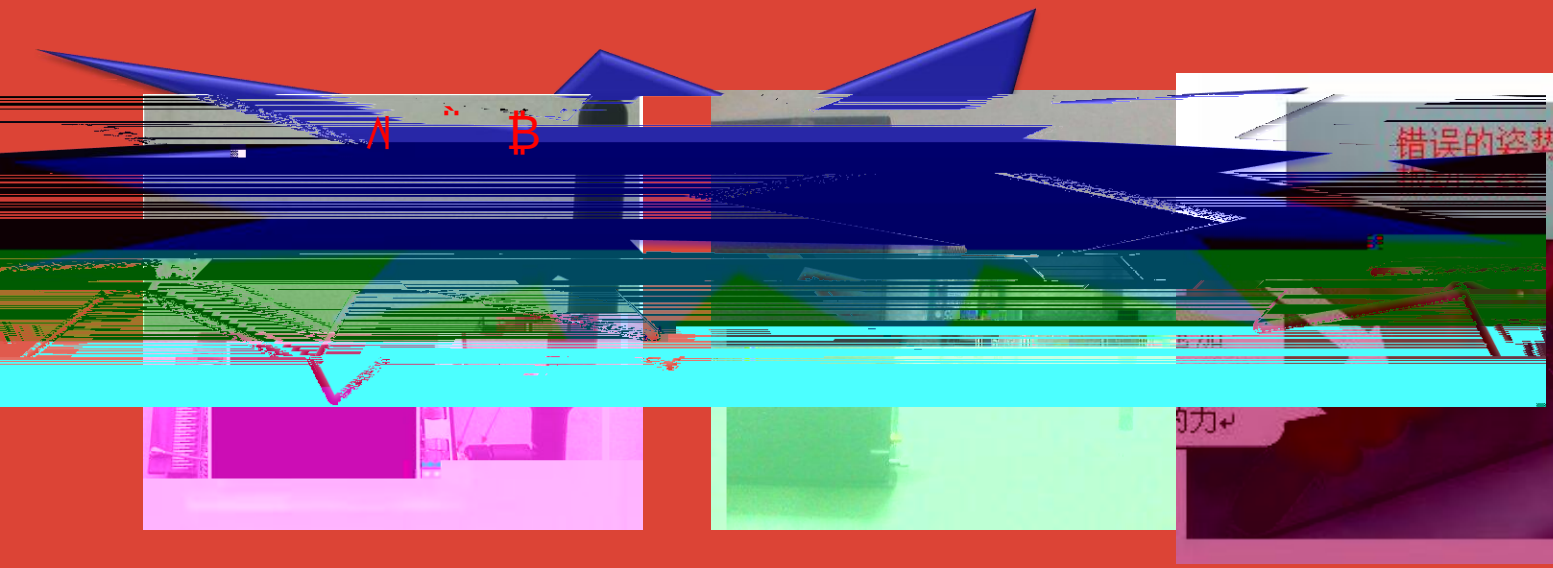
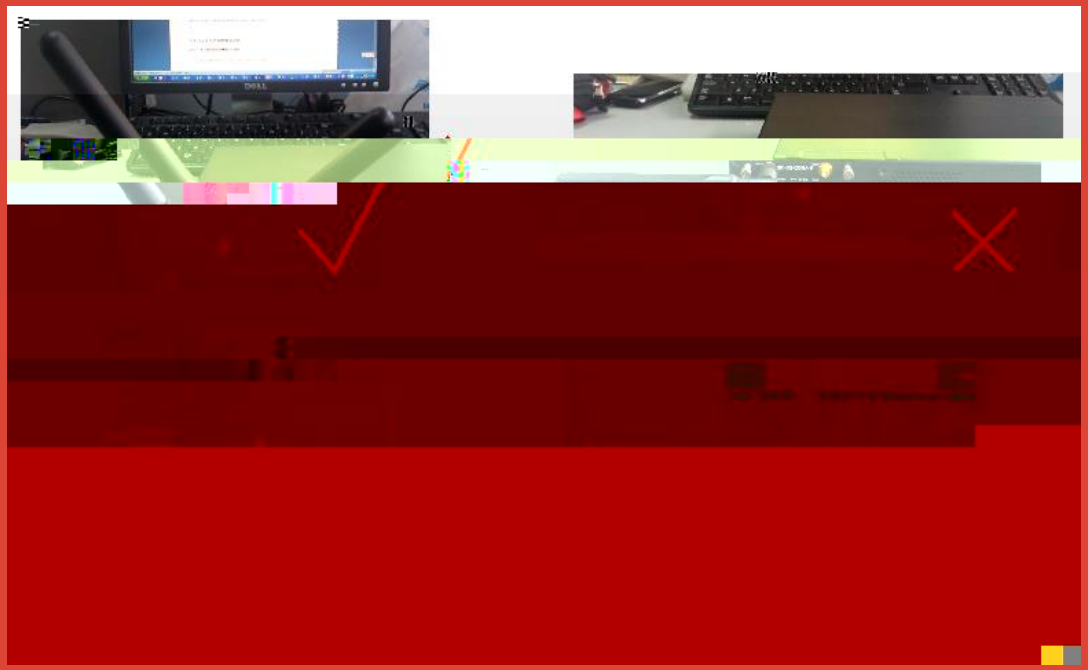

A
B
C
错误的姿势！禁止纵向



3G

rgos.bin

rgos.bin

tftp

rgos.bin

.doc

RSR

- ٤
- v ٨
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NMX-24ESW ٨ ٨

SIC-3G ٨

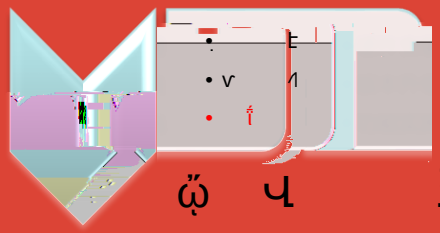
SIC-3G ؤ v ث ٠ ٨ ب ğ ء ب ٦ أً
ڈ ئ ٨ ک ح releasenote n * . SIC-3G ؤ v ٨
| ٦ xmodem tftp

- 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+ ٧ ٦

- : Ь
- v ٧
- f

h ٣ ٩

٧ + OBJipmacbind

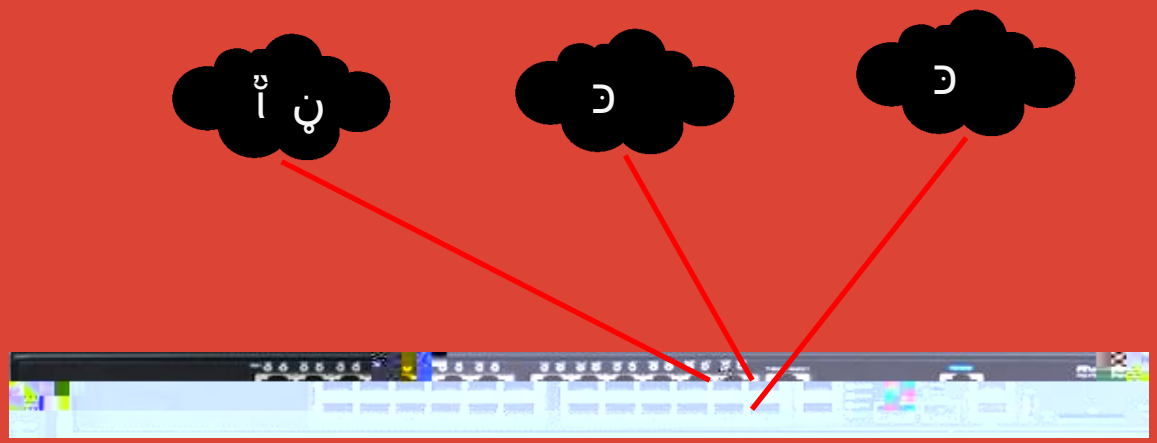
+SVI OBJACL

- 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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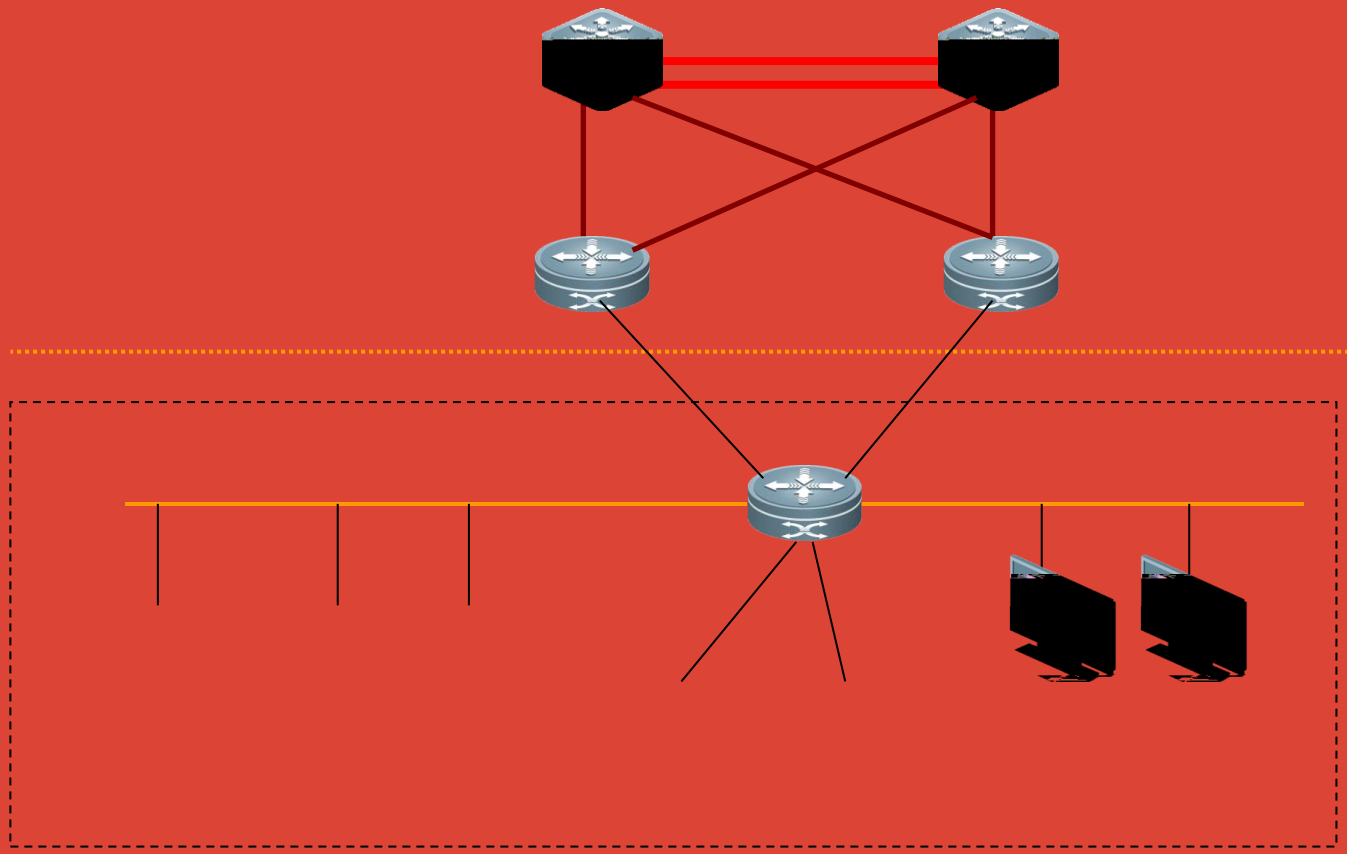
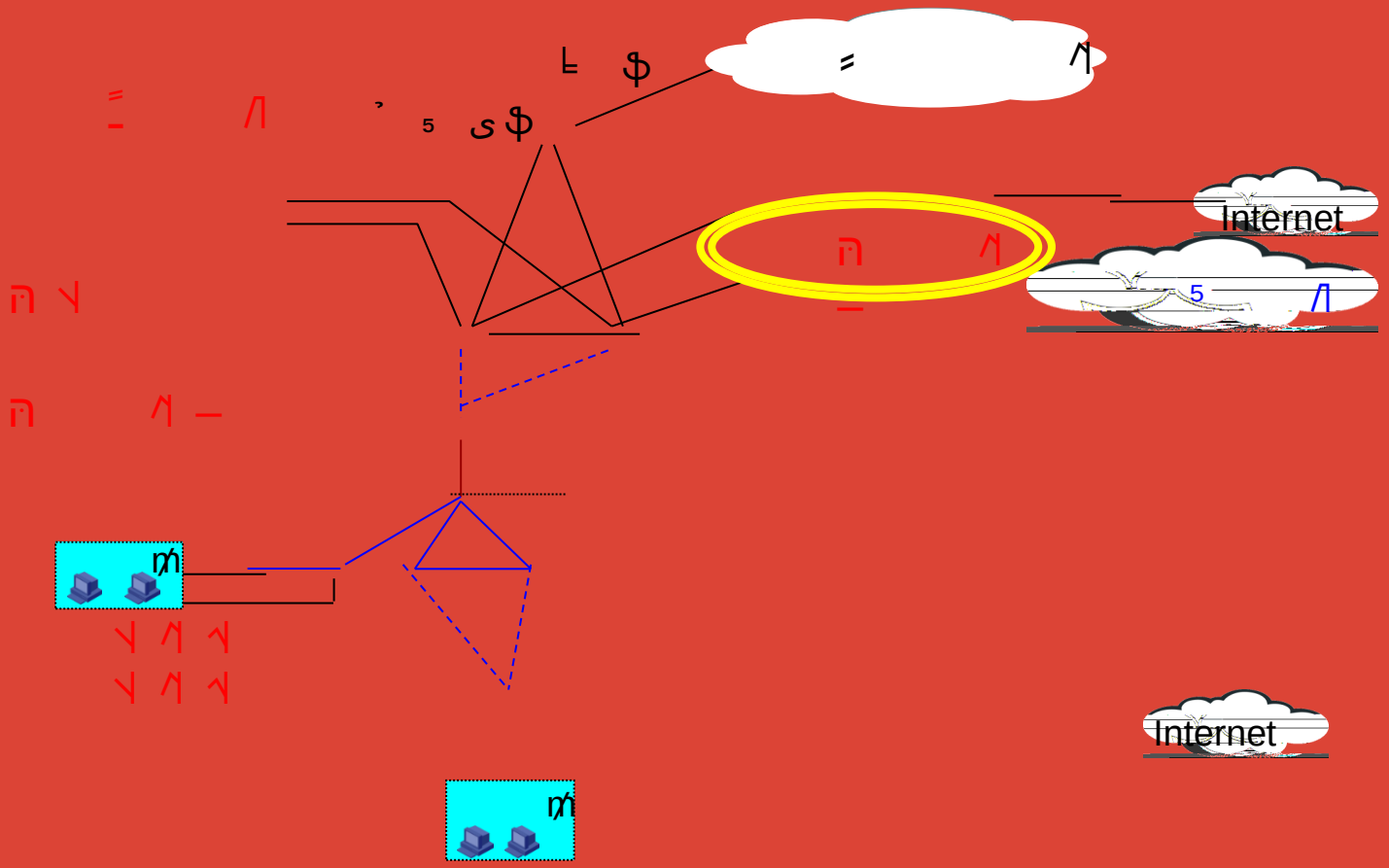
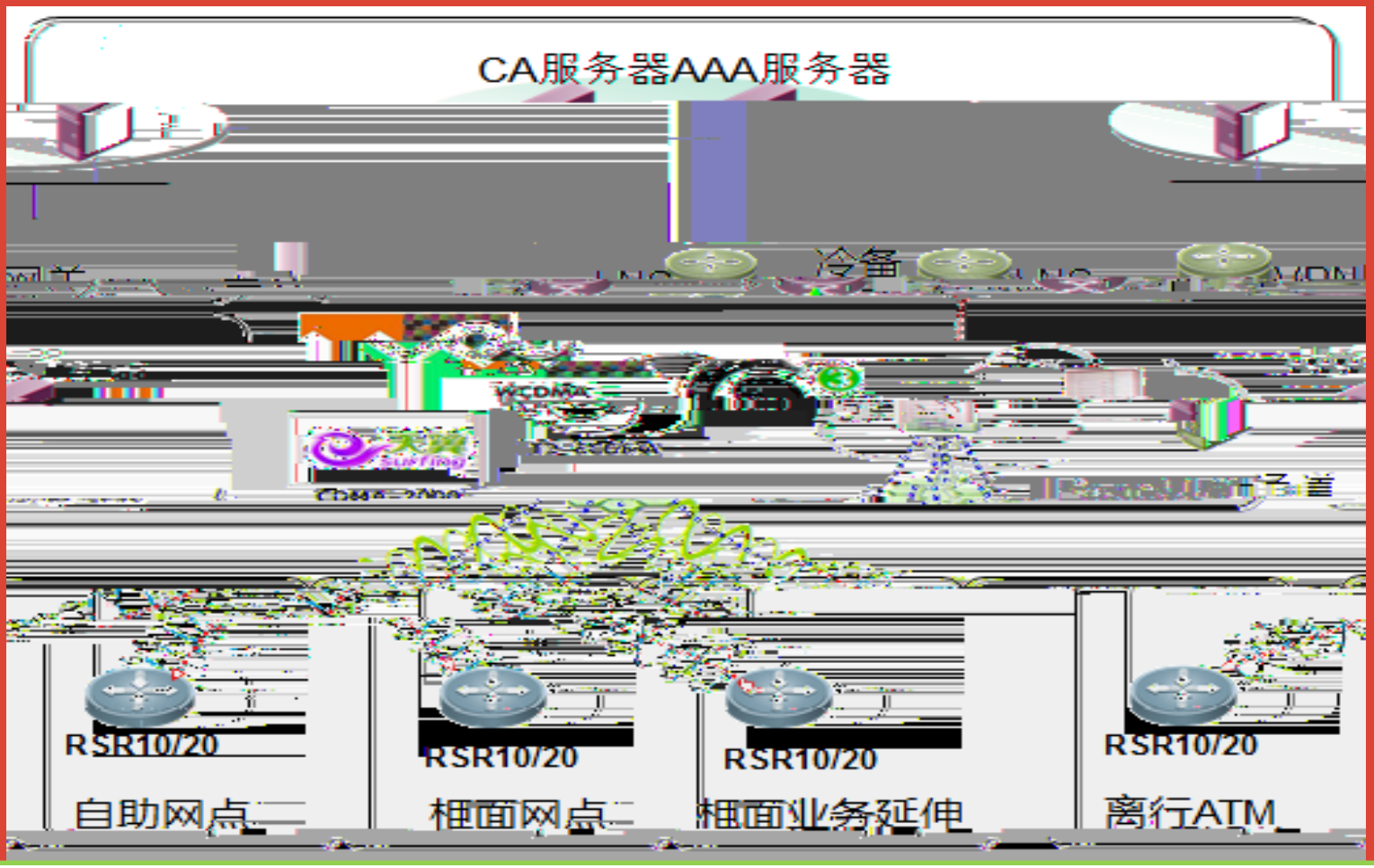
۲ ۱ OBJ 3G ۱

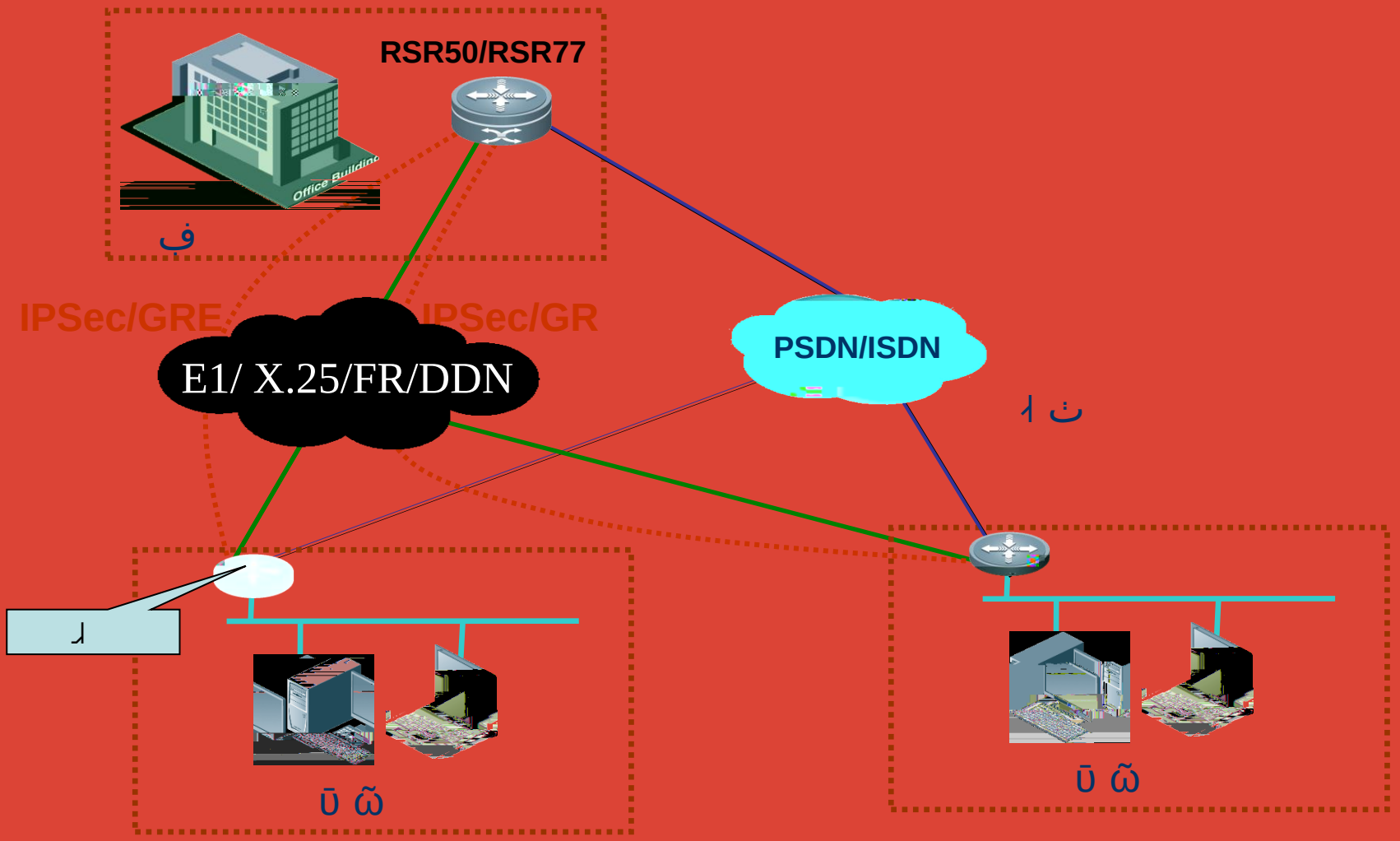



Internet
Internet



3G BFD TRACK IPSEC /RIP/OSPF

AAA SNMP


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

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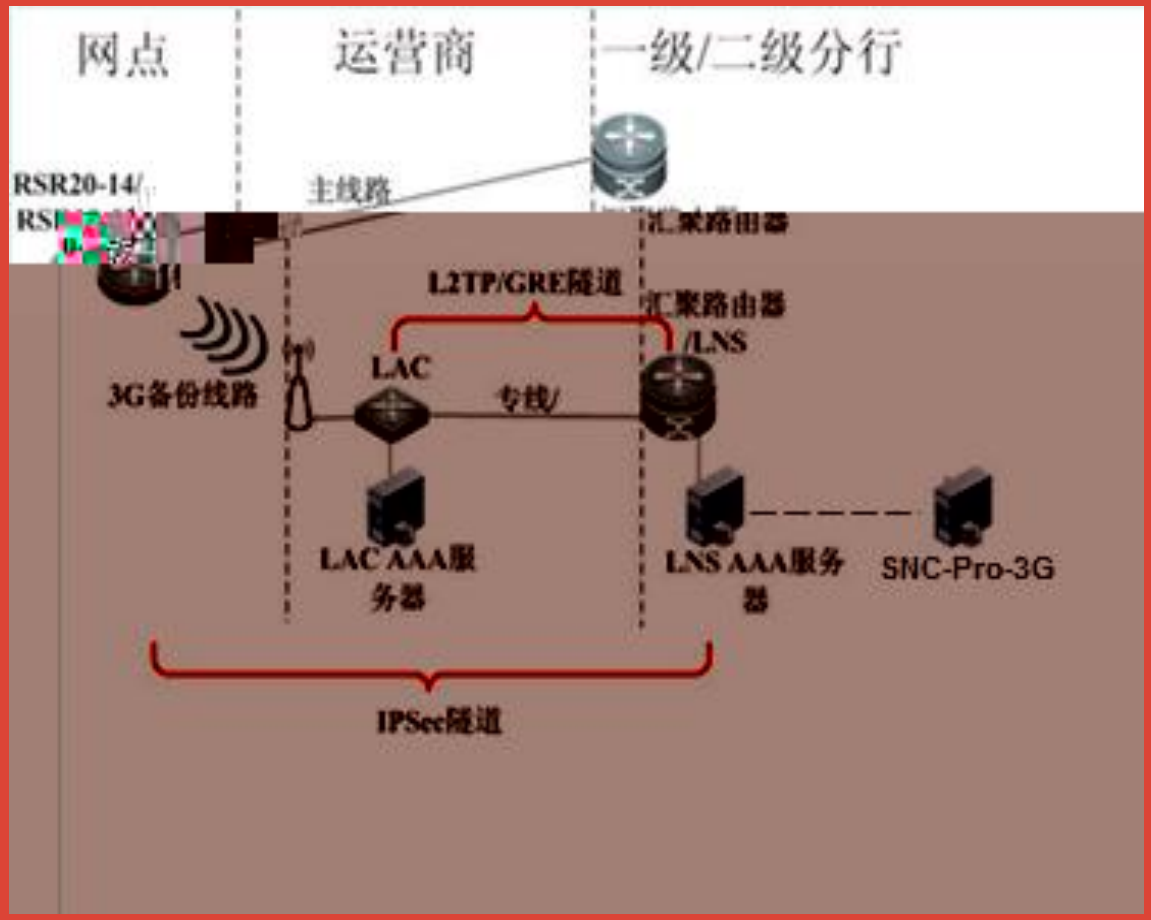
网点
运营商
一级/二级分行
RSR20-14/
主线路
L2TP/GRE隧道
汇聚路由器
/LNS
LAC
3G备份线路
专线/
LAC AAA服务器
LNS AAA服务器
SNC-Pro-3G
IPSec隧道

• ﺓ 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 ﻯ ﻑ IP ﺍ LNS ﺱ ﺏ ﭖ ﻝ keepalive ﻟﻟ	
IPSEC	ﭖ ﺭ ﺃ ﺓ SM1 ﻝ | ﭖ ﻝ DPD ﻟﻟ	
ﺙ ﺍ ﻥ	ﭖ ﺭ OSPF+ ً ﺙ ﺍ	
DLDP	MSTP ﺝ ﺙ ﻟﻟ	
QOS	MSTP ﺍ ﺙ ﭖ ﺭ LLQ+CBWFQ ﻙ	
ﭖ ﻝ	ﻙ ﻝ ﺍ ﺙ ﻝ telnet ﻕ ﺕ IP	ă
	AAA/SNMP/ACL ﺵ ﺯ /ACL ﮒ ﮈ ⅜ ﻝ ﺯ	ﺩ ﭖ ﻝ

IPSEC

```
ip access-list extended 100                    //    ﺏ ﻟ IPSec      ﺭ      ﻟ
 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   ﻟ
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

谢谢 | 创新网络价值

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E-Mail: xxx@ruijie.com.cn