



Web

RGOS 10.3(4b6)p1

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■ <http://webchat.ruijie.com.cn>

8:30 6

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

■ 7× 24 4008-111-000

■ <http://support.ruijie.com.cn>

■ service@ruijie.com.cn

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RGOS®10.3 (4b6)p1

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1.

Courier New

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2.

Arial

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3.

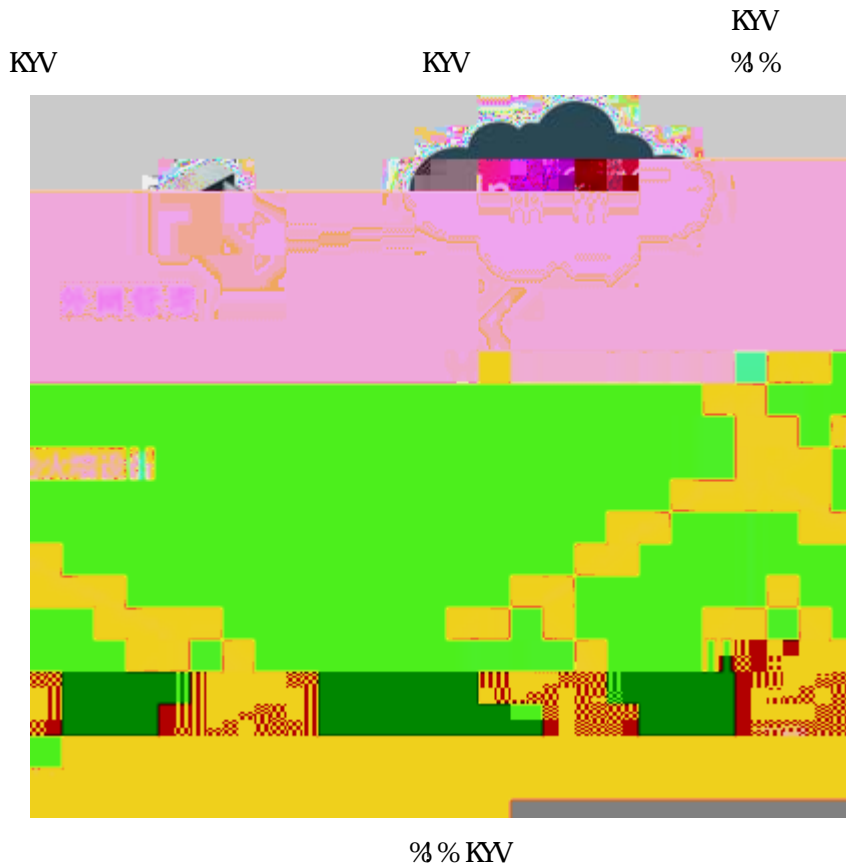


4.



1 Web

1.1



1.2 KYV

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1.3 KW

KYV 0 2 KW

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KYV

2

2.1

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71

2.2

KV

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J@B				
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3.2.1.2 J@B

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J@B

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3.2.2 6J=

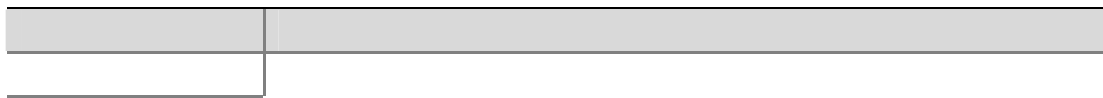
3.2.2.1 6J=

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J@5B

3-3

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J@5B

J@5B

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4

4.1

4.1.1

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4.1.2

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4.1.3

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4.3

4.3.1

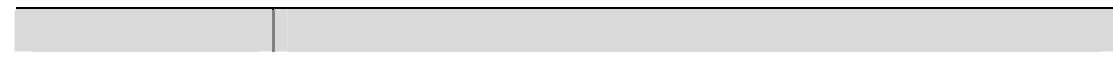
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-]Wd Z ccX iXd Z ccX

4.3.2

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8cG 8Yb]U cZGfj]W

8cG

GNB : `ccX

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d]b[=7AD H7D
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H/D#-D

H/D

GNB : `ccX

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4.4.4

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I 8D : @CC8 =D : @CC8 =7AD GMB : @CC8
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4.4.5.1 =D : @CC8
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4.4.5.2 =7AD

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&L 57@ GMB : @CC8 57@ 57@

4.4.5.4 I8D: @08

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5.2.2.4

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5.2.2.5

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5.2.3.1

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6 ACL

6.1

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6-3 ACE

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6-4 ACE

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7 NAT

7.1

B5H BYhkcF_ 5XXfYgg HFUbg` Uh] cb =D =D
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7.2 B5H

7.2.1

- B5H =D =D
- =D =D
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NAT

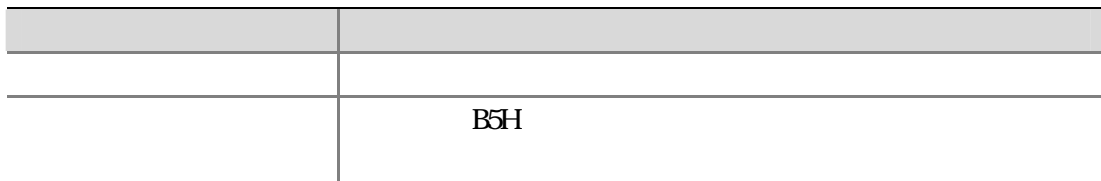
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NAT
NAT

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7-2

7-2 NAT



7.2.3

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NAT
7-2

7-1

IP

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7.2.4

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B5DH

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2 B5H

B5H

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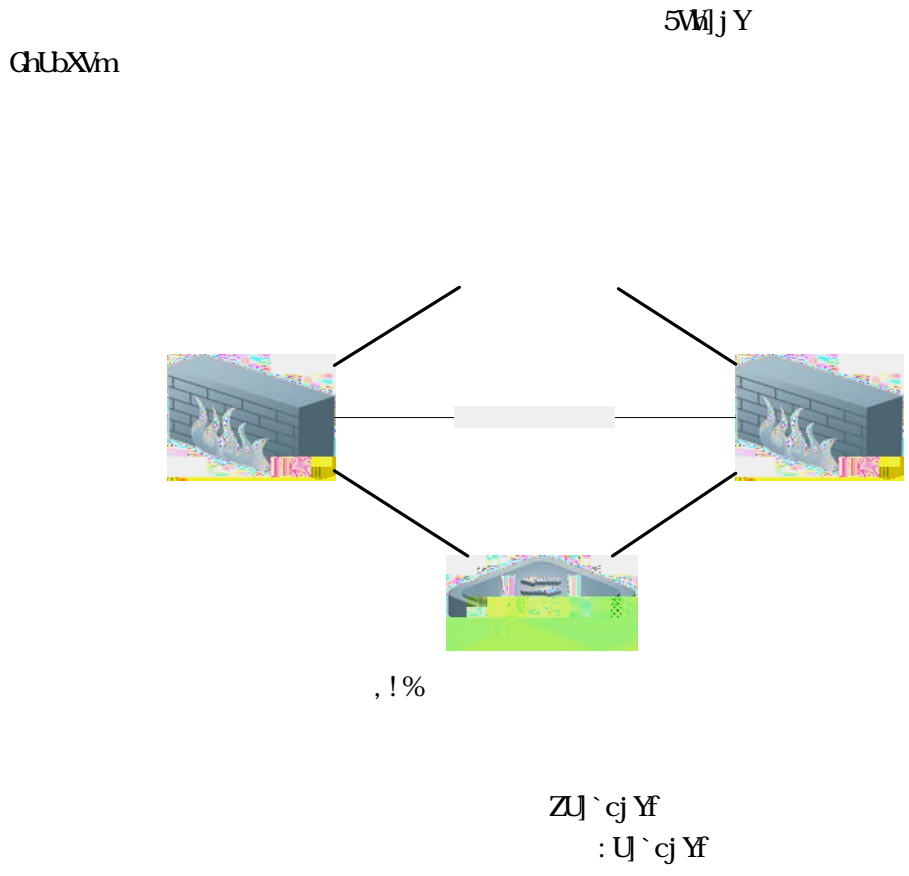
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8.1



8.2

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9

9.1

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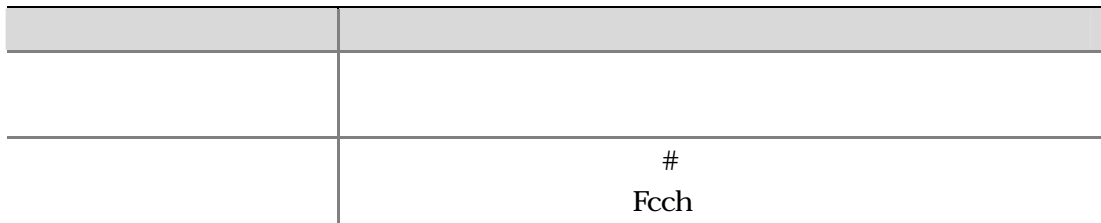
IP

9.2

2

-!%

9-1



Root

9.3

9-1

9-2

9-1

9-3

9-3

Web

30%

30%

MAC

9-4

=9

KYV

10

10.1

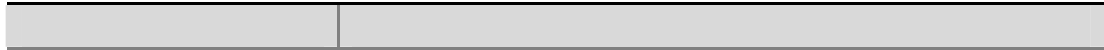
10.1.1

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10.1.2

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10.2

10.2.1

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10.2.2

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10-4

10-5



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10.2.4

10-6 10-3

10-6

11 RIP

11.1

RIP (Routing Information Protocol)

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11.2.1.2 RIP

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F=D

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11.2.1.3 RIP

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11.2.1.4

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11.2.1.5 RIP

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11.2.2 RIP

RIP

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J@5B

F=D

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J@5B F=D

% & & &

11.2.2.1

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 fU %&% "%S" S#% # %&& (fV %&% "S" S
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11.2.2.2

F=D —2 —2 %&& &
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11.2.2.3

F=D —2 —2 %& & &
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11.2.2.4 RIP

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添加密钥

添加密钥

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设置密钥的有效时间

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删除

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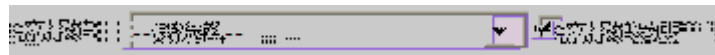
(



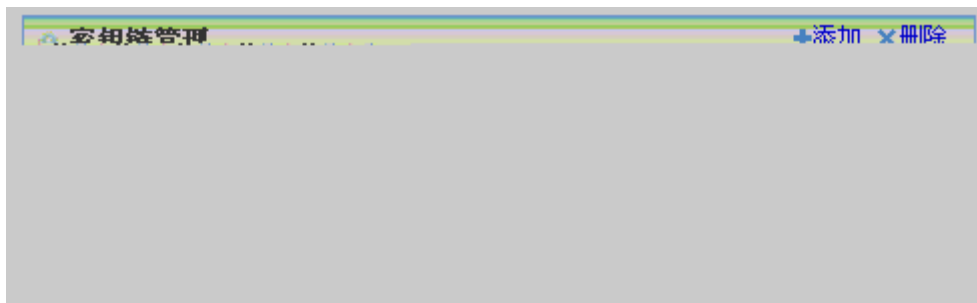
%%&&%%&

删除

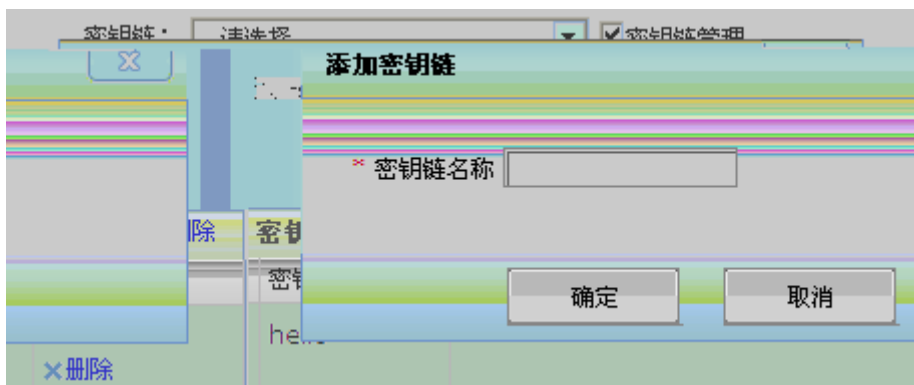
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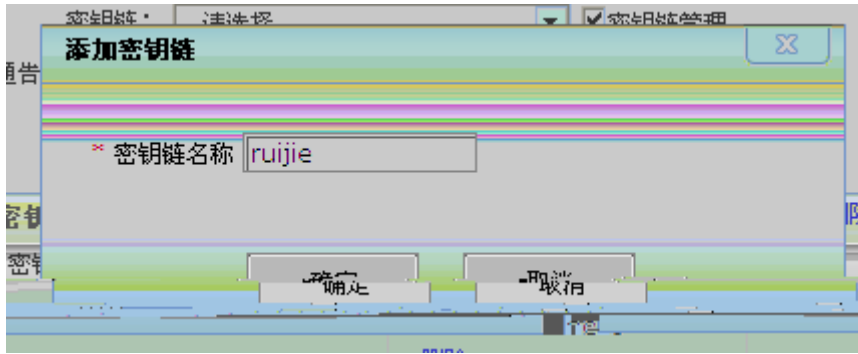
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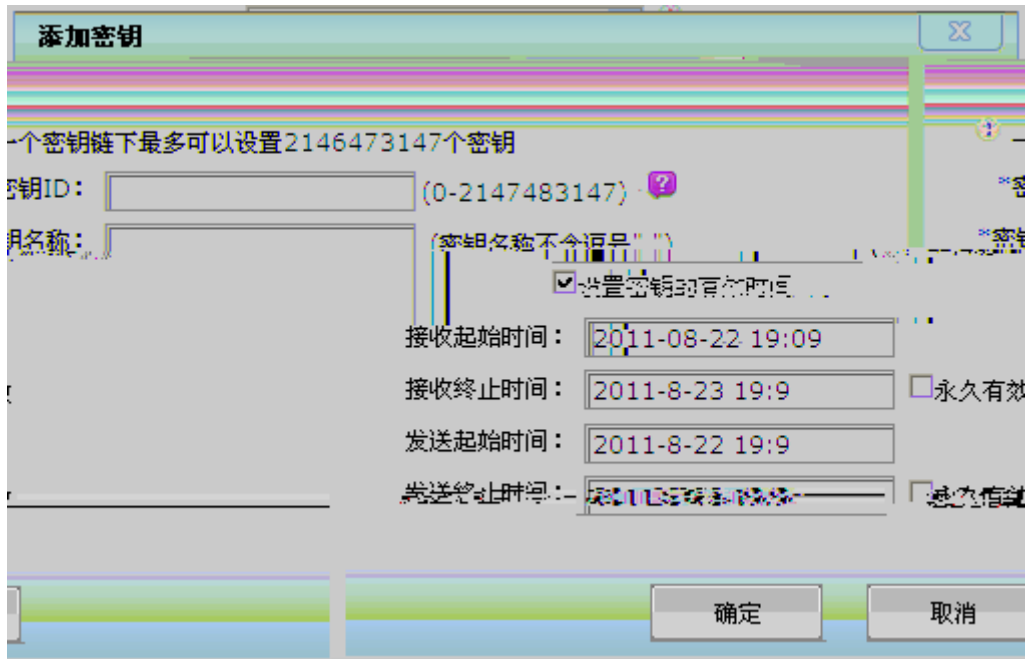


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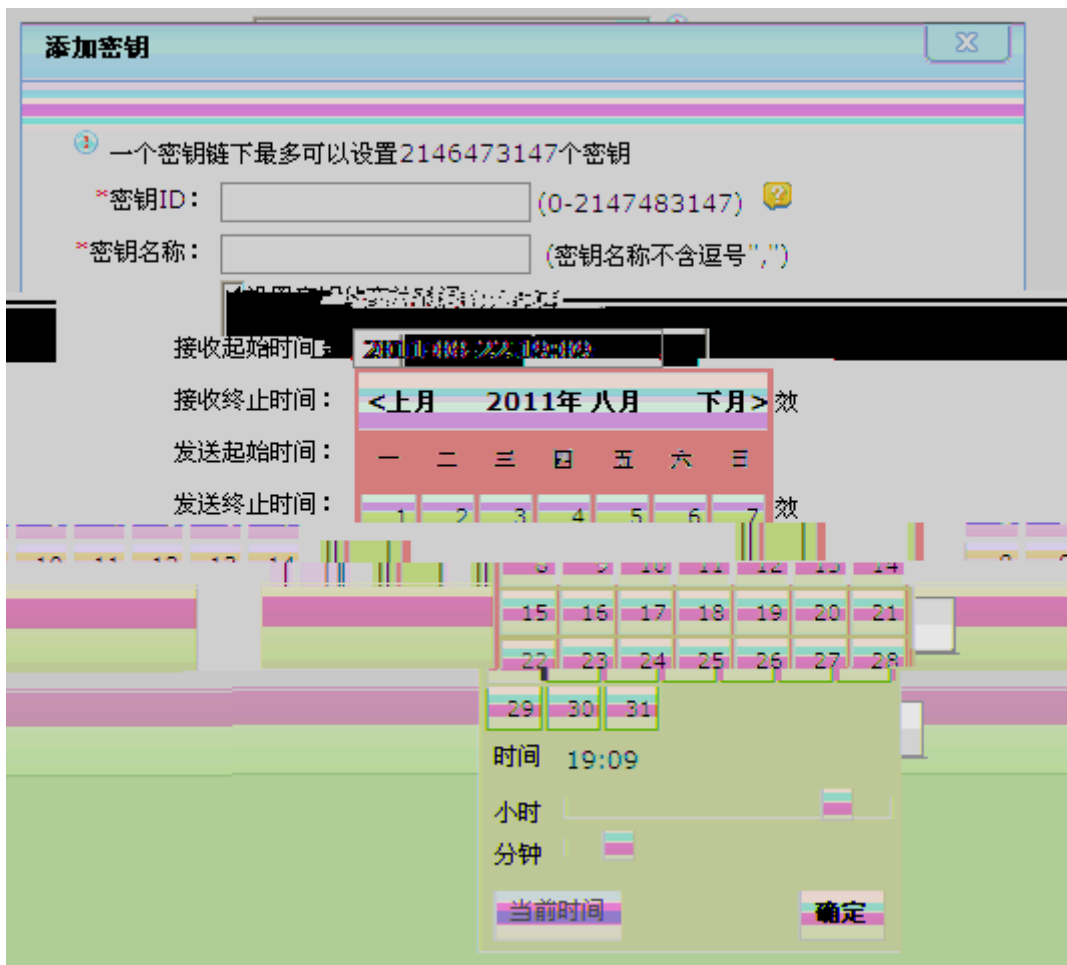


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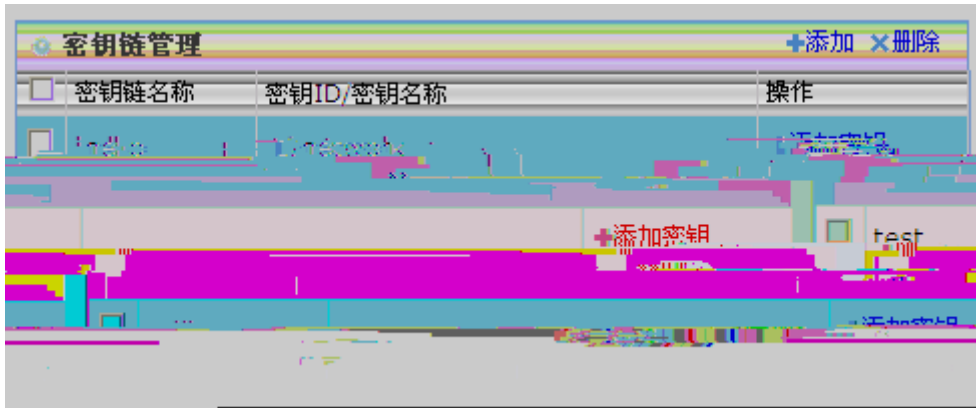
fi] ^Y



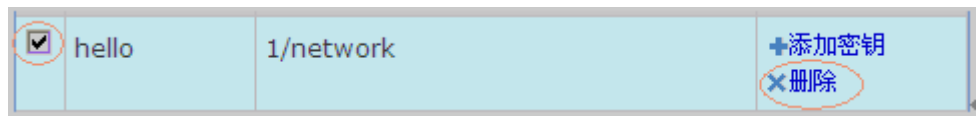
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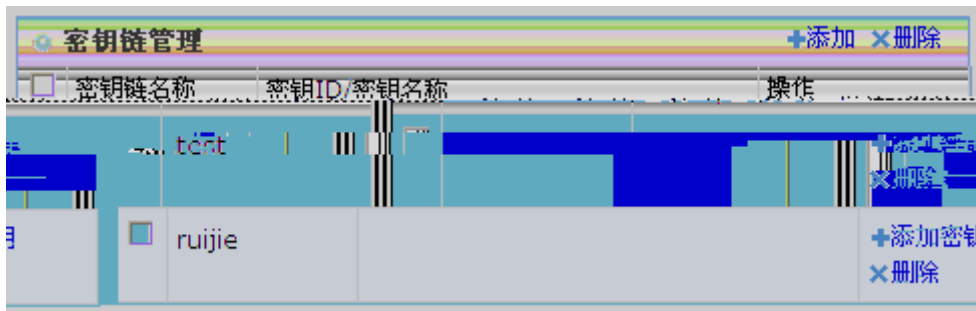
%% & & %



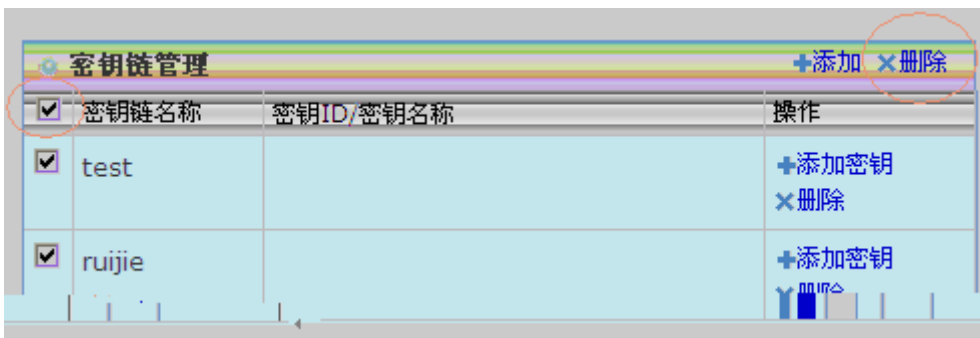
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11.2.2.6



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11.2.2.8

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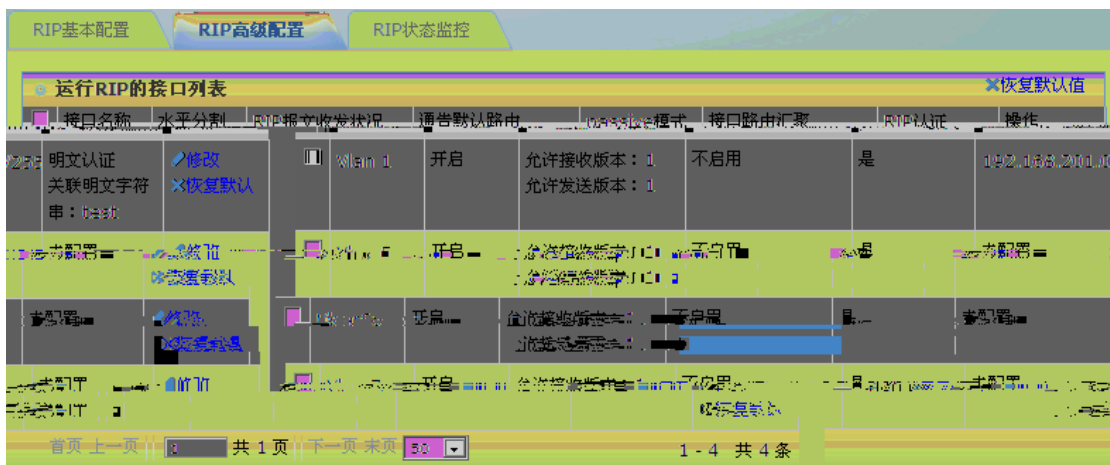
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11.2.2.9 VLAN

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J@5B &

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×恢复默认

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<input type="checkbox"/>	Vlan 1	开启	允许接收版本：1 允许发送版本：1	不启用	否	未配置	未配置	修改 恢复默认
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11.2.2.10 VLAN

& U

12 OSPF

12.1

OSPF Open Shortest Path First IETF OSPF
OSPF IP
89 OSPF 224.0.0.5 OSPF
224.0.0.6

RIP OSPF
RIP OSPF
VLSMs() RIPv2
RIP
1 2 16 OSPF
RIP IGP

OSPF
A4 0 Td [(IG)12(P)]TJ 2.629f 0.0020FF507CE4.0114, RS CÇ ß &• Ò •0Ô<p @

2 ABR Area Border Routers ,

3 ASBR Autonomous System Boundary Routers ,

OSPF

OSPF

RFC 2328

OSPF v2

OSPF

■ OSPF 64 OSPF

■ VRF VRF OSPF

■ —

■ — RIP BGP

■ — MD5

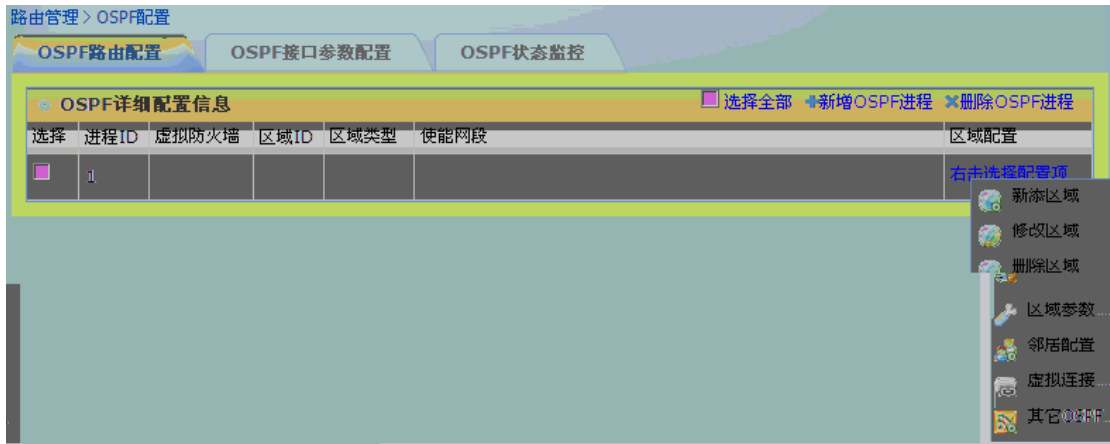
■ —

■ VLSMs

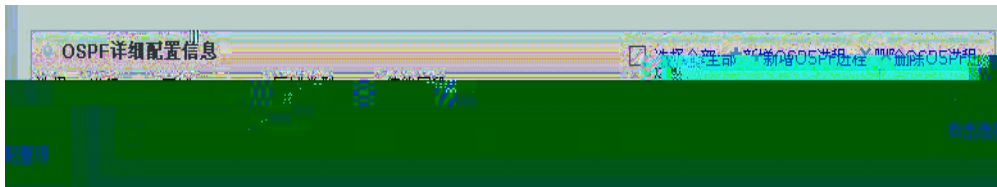
■

■ NSSA Not So Stubby Area RFC 3101

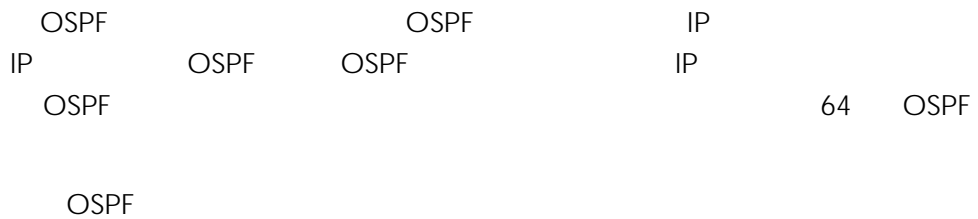
Graceful Rest Jx)r),(623 01 2T0 1 T1 1 1 Tf 01 18 Tc 2.246 0 Td 0. Tcw8>TM j /TT2



12.2.1.1 OSPF

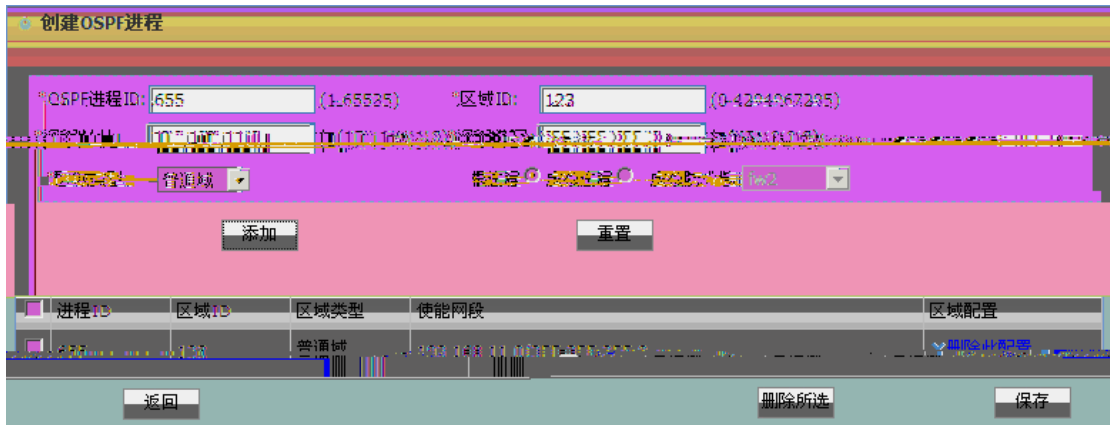


12.2.1.1.1 OSPF



Step 1	Ruijie # configure terminal	
Step 2	Ruijie (config)# ip routing	()
Step 3	Ruijie (config)# router ospf process_id [vrf vrf-name]	OSPF OSPF
Step 4	Ruijie (config-router)# network address wildcard-mask area area-id	

ID



OSPF

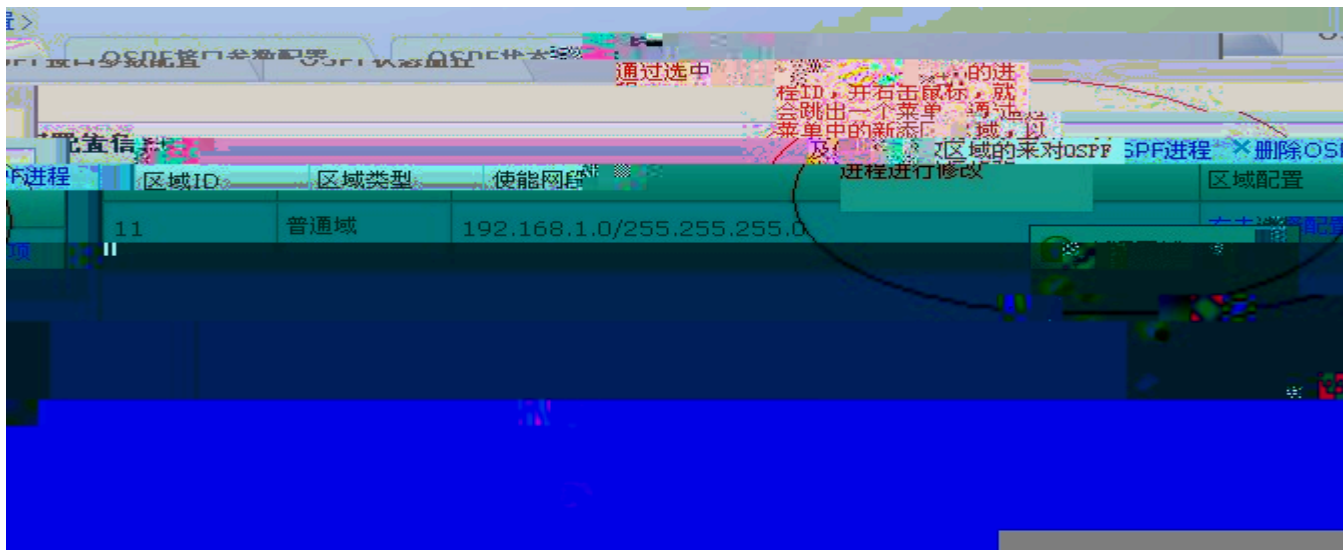
12.2.1.10 OSPF

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12.2.1.1.3.1

OSPF

CGD

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CGD	=8	CGD
	=8	
		CGD

12.2.1.1.3.2

OSPF

CGD

=8



CCD	=8	CCD
	=8	CCD
		CCD

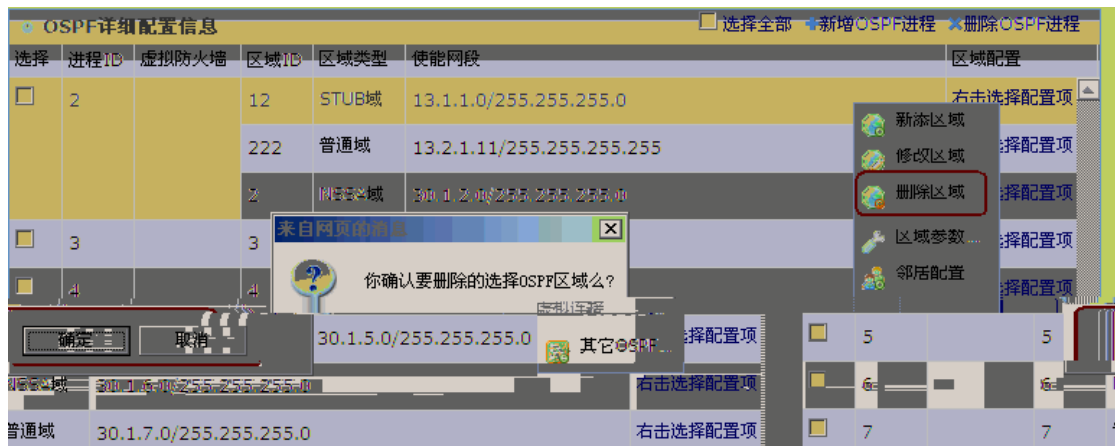
12.2.1.1.3.3

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12.2.1.1.3.4

OSPF

CCD

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OSPF



12.2.1.2

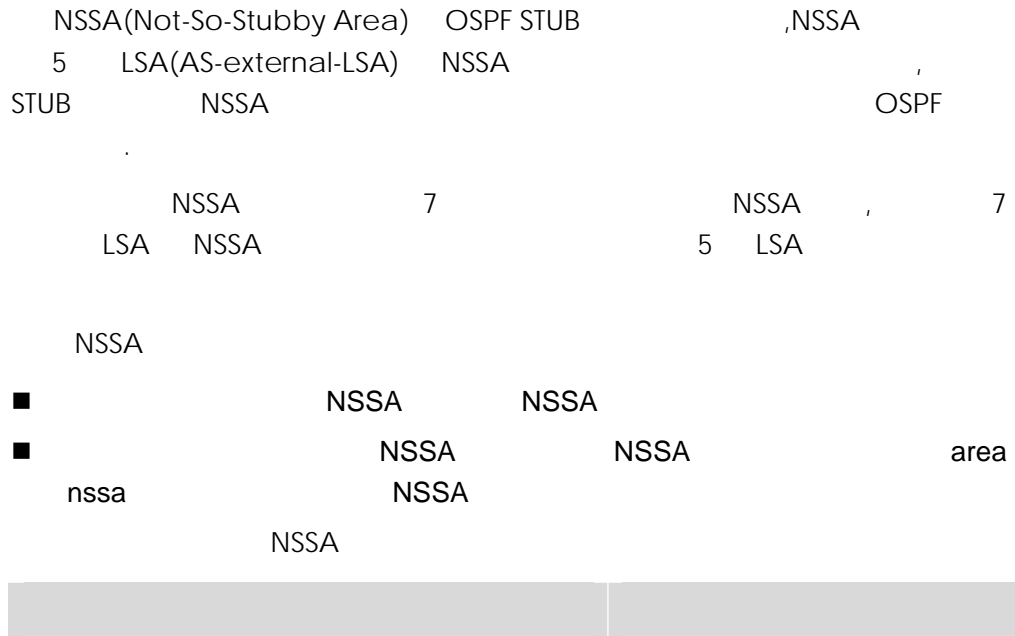
12.2.1.2.1.1

OSPF

OSPF

12.2.1.2 NSS

12.2.1.2.2.1 NSS



12.2.1.2.4



12.2.1.2.4.2

no area *area-id* range *ip-address net-mask* [cost]

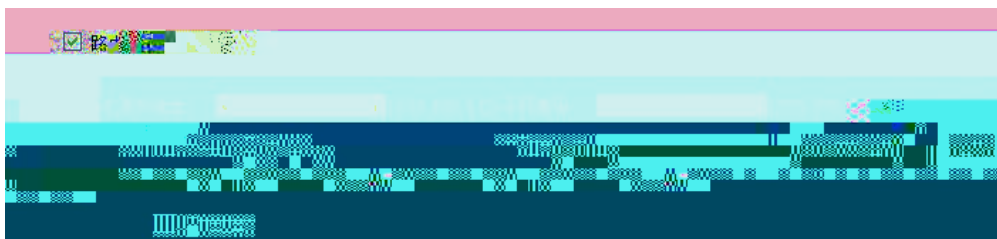
<i>area-id</i>	OSPF IP
<i>ip-address net-mask</i>	
advertise not-advertise	
cost cost	0-16777215

cost RFC1583 RFC1583
cost

ABR
advertise not-advertise
cost OSPF
area range

12.2.1.2.5.2

!2 =8→
ž ž ž



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<i>ID:</i> <i>area-id</i>	OSPF IP
<i>IP</i> <i>ip-address</i>	IP,
<i>net-mask</i>	,
advertise not-advertise	,advertise , not_advertise
cost <i>cost</i>	0-16777215

12.2.1.2.6

12.2.1.2.6.1

ABR area filter-list

area *area-id* filter [*access acl-name* | prefix *prefix-name*] [*in* | *out*]

no area *area-id* filter [*access acl-name* | prefix *prefix-name*] [*in* | *out*]

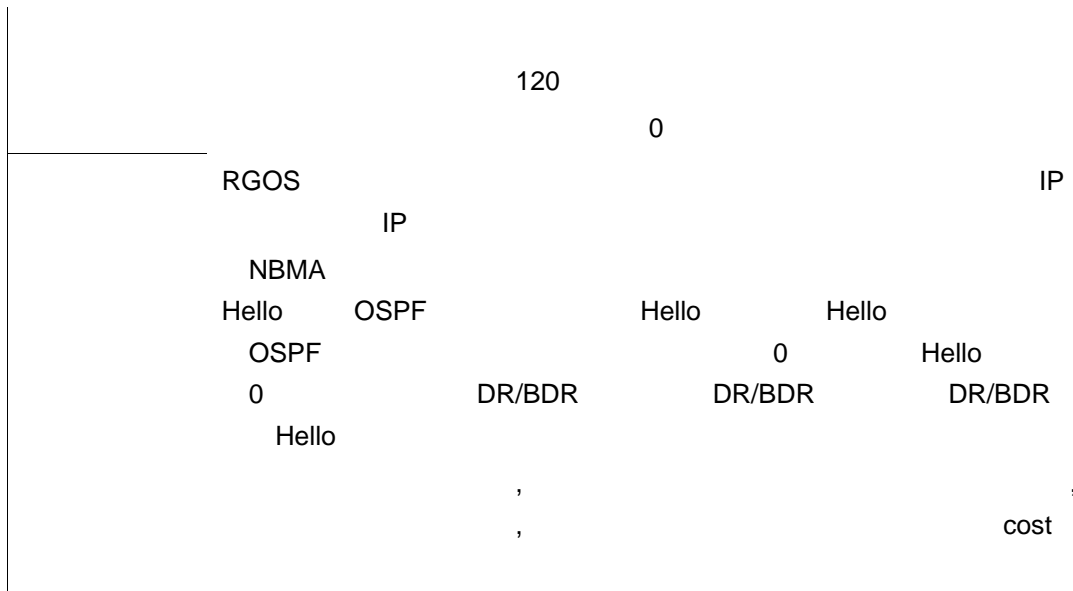
<i>area-id</i>	
<i>acl-name</i>	acl
<i>prefix-name</i>	prefix-list
access prefix	prefix list ACL
in out	

```

ABR
ABR
ACL ,prefiex




```


	0-255	(NBMA)
cost cost	1-65535	cost (point-to-multipoint)



12.2.1.3.2

CCD !2 CCD =8→
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12.2.1.4

12.2.1.4.1

```

ospf
  area virtual-link no
  area area-id virtual-link router-id [authentication message-digest | null]
  [

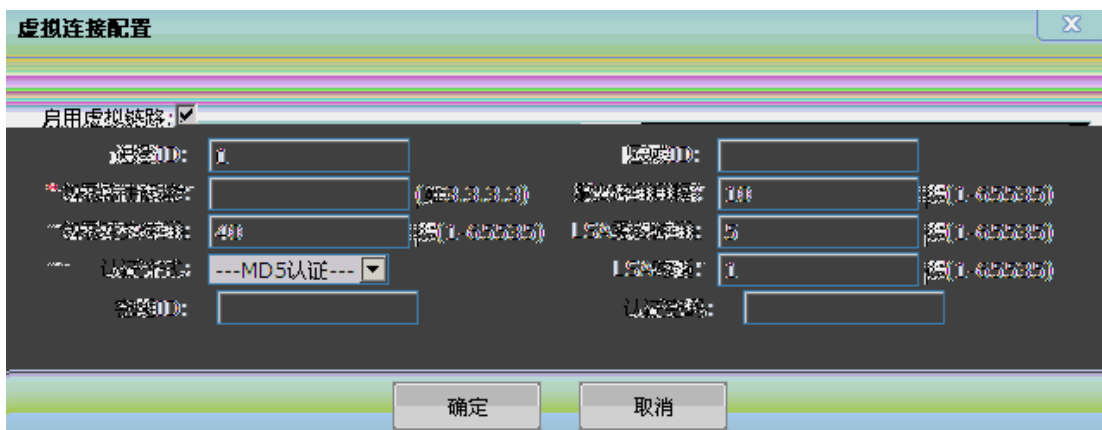
```

transmit-delay <i>seconds</i>	OSPF LSA LSA LSA	LSA 1-65535 LSA LSA
authentication-key <i>key</i>	OSPF password-encryption	service
message-digest-key <i>key-id md5 key</i>	OSPF MD5 password-encryption	MD5 service
authentication		
message-digest	MD5	
null		

dead-interval 40
hello-interval 10
retransmit-interval 5
transmit-delay 1

12.2.1.4.2

CGD !2 CGD =8→
ž



ID:area-id	OSPF IP
Ospf ID:router-id	show ip ospf
dead-interval seconds	1-65535
hello-interval seconds	OSPF Hello 1-65535
LSA retransmit-interval seconds	OSPF LSA 1-65535
LSA transmit-delay seconds	OSPF LSA 1-65535 LSA LSA
authentication-key key	OSPF service password-encryption

12.2.1.5.2

12.2.1.5.2.1

ž CGD

CGD

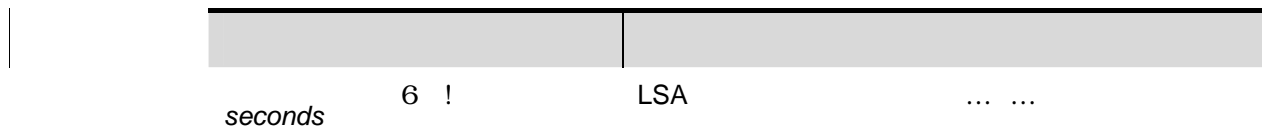
)

LSA

no

timers lsa-group-pacing *seconds*

no timers lsa-group-pacing



```

3 OSPF OVERFLOW
   OSPF OVERFLOW
   clear ip ospf process OSPF OVERFLOW NULL
   OSPF OVERFLOW OSPF OVERFLOW
   no OSPF OVERFLOW
   OSPF OSPF
   OSPF
   no

```

passive-interface [default | type number]

no passive-interface [default | type number]

type number	
default	

```

OSPF

```

12.2.1.5.2.2

```

CCD !2 CCD =8→
CCD ž . CCD ž

```



ID	ID
OSPF	OSPF
OSPF	OSPF

12.2.1.5 OSPF

12.2.1.5.3.1 OSPF

0-255

OSPF

110

OSPF

distance { distance | ospf { intra-area distance | inter-area distance | ex6 1 Tf.T0 6 } distance

12.2.1.5.4

12.2.1.5.4.1

OSPF

SPF

SPF

timers spf timers throttle spf no

timers spf *spf-delay* *spf-holdtime*

no timers spf

timers throttle *spf-delay* *spf-holdtime* *spf-max-waittime*

	<i>spf-delay</i>	SPF 0-214748364 () OSPF	SPF
	<i>spf-holdtime</i>	SPF 0-214748364 ()	
	<i>spf-max-waittime</i>		OSPF CPU timers throttle spf

	1 RGOS 10.4 timers spf 5 10	timers throttle spf	
	2 RGOS 10.4 SPF	timers throttle spf timers throttle spf	timers spf timers
	throttle spf		

	<i>spf-delay</i> <i>spf-holdtime</i>	OSPF	
		CPU	
	timers spf timers throttle spf		
	timers throttle spf	timers throttle spf	
	timer throttle spf	timers spf	

	<i>ip-address</i>	IP
	<i>net-mask</i>	
	not-advertise	
	tag value	tag 0-4294967295

	OSPF
	OSPF
	area range area range OSPF
	summary-address OSPF
	NSSA summary-address NSSA ABR

12.2.1.5.5.2

	: 0-4294967295
--	----------------

12.2.1.5.6 OSPF

12.2.1.5.6.1 OSFP

```

default-information originate no
default-information originate always [metric metric] [metric-type type]
[route-map map-name]
no default-information originate [metric] [metric-type type] [route-map
map-name]

```

	always	OSPF
	metric <i>metric</i>	0-16777214
	metric-type <i>type</i>	OSPF 1 2 1 2
	route-map <i>map-name</i>	route-map , route-map

	metric 1
	metric-type 2

	redistribute	default-information	OSPF	ASBR
		ASBR		OSPF
		ASBR	default-information originate	
	always	OSPF		
	show ip ospf database	OSPF		0.0.0.0
		OSPF	show ip route	

router_map

route-map

Step 10	Ruijie(config-if)# ip ospf priority { <i>broadcast non-broadcast</i> <i>point-to-multipoint non-broadcast</i>] <i>point-to-point</i> }	broadcast OSPF non-broadcast OSPF NBMA point-to-multipoint [non-broadcast] OSPF , non-broadcast point-to-point OSPF
Step11	Ruijie(config-if)# ip ospf authentication [message-digest null]	
Step12	Ruijie(config-if)# ip ospf authentication-key <i>key</i>	
Step13	Ruijie(config-if)# ip ospf message-digest-key <i>keyid md5 key</i>	MD5
Step14	Ruijie (config-if)# ip ospf database-filter all out	OSPF LSA LSA
Step15	Ruijie (config-if)# end	
Step15	Ruijie # show ip ospf [<i>process-id</i>] interface [<i>interface-id</i>]	
Step17	Ruijie # write	

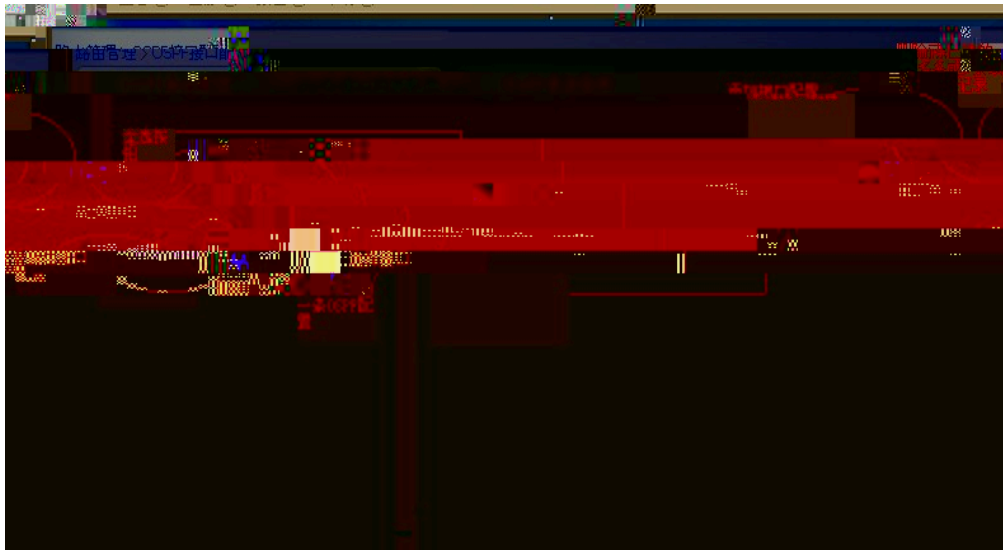
•

12.2.2.2

2000

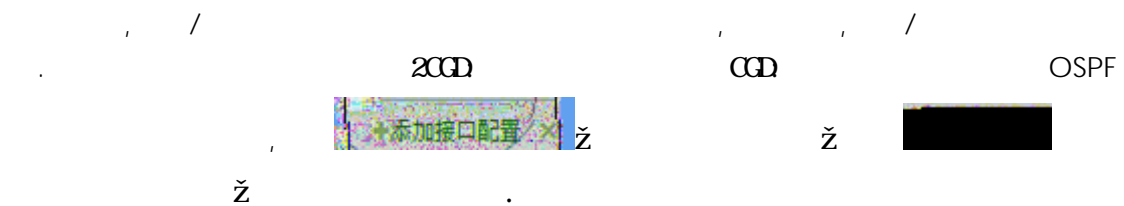
000

OSPF



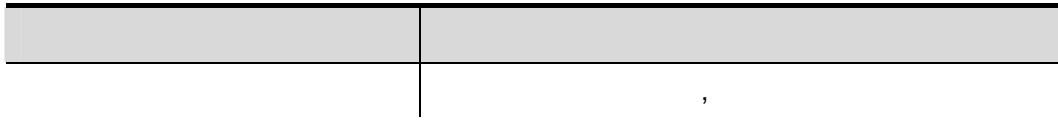
12.2.2.3

, /



添加接口配置

接口名称:	<input type="text"/>	接口物理类型:	<input type="text" value="-请选择网络类型-"/>
接口费用:	<input type="text"/>	秒(1-65535)重传间隔:	<input type="text"/>
传输延迟:	<input type="text"/>	秒(1-65535)hello报文间隔:	<input type="text"/>
失效间隔:	<input type="text"/>	秒(1-65535)优先级:	<input type="text" value="(0-255)"/>
使用BFD进行链路检测:	<input type="checkbox"/>	产生ospf报文:	<input type="checkbox"/>
阻止接口泛洪链路状态更新报文:	<input type="checkbox"/>	是否忽略MTU校验:	<input type="checkbox"/>
认证方式:	<input type="text" value="--不认证--"/>		



()

()

()	OSPF hello OSPF DR/BDR DR BDR DR BDR DR/BDR OSPF broadcast non-broadcast DR BDR DR BDR
-----	---

BFD ()	, , bfd all-interfaces ip ospf bfd BFD OSPF bfd all-interfaces OSPF BFD ip ospf bfd disable BFD
---------	---

OSPF ()	, , network area network ospf OSPF OSPF , ,
----------	--

()
 ip ospf database-filter all out

KEY	<pre> ip ospf authentication-key OSPF OSPF OSPF area authentication ip ospf authentication </pre>
MD5 ,MD5 ,	<pre> ip ospf authentication-key OSPF OSPF OSPF area authentication ip ospf authentication </pre>

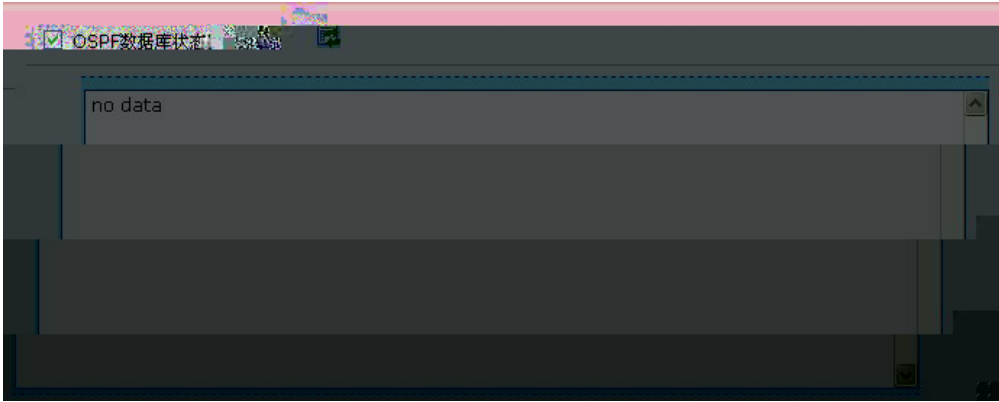
12.2.3 OSPF

OSPF , OSPF , OSPF
, 2000 ,
OSPF , OSPF :



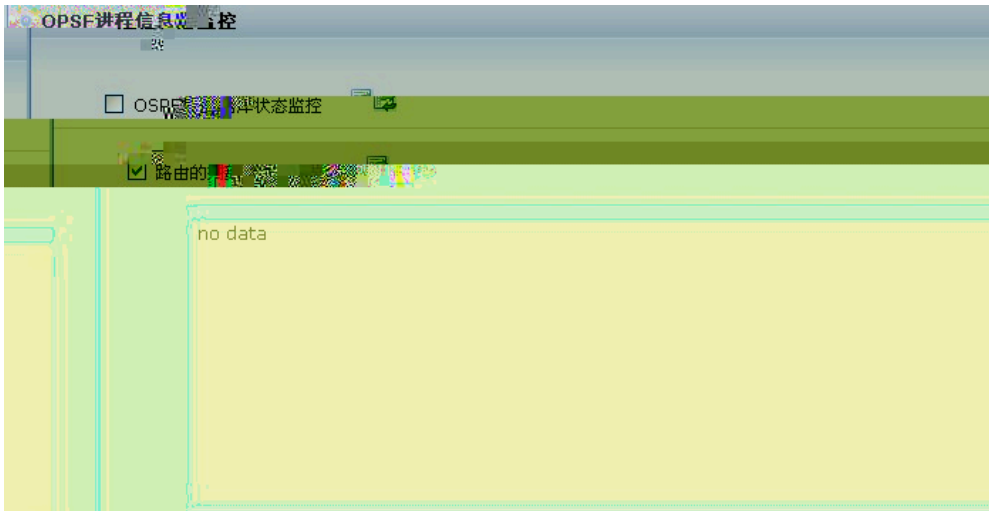
12.2.3.1 OSPF

OSPF , OSPF , OSPF
 OSPF , 2000 OSPF , 000 OSPF



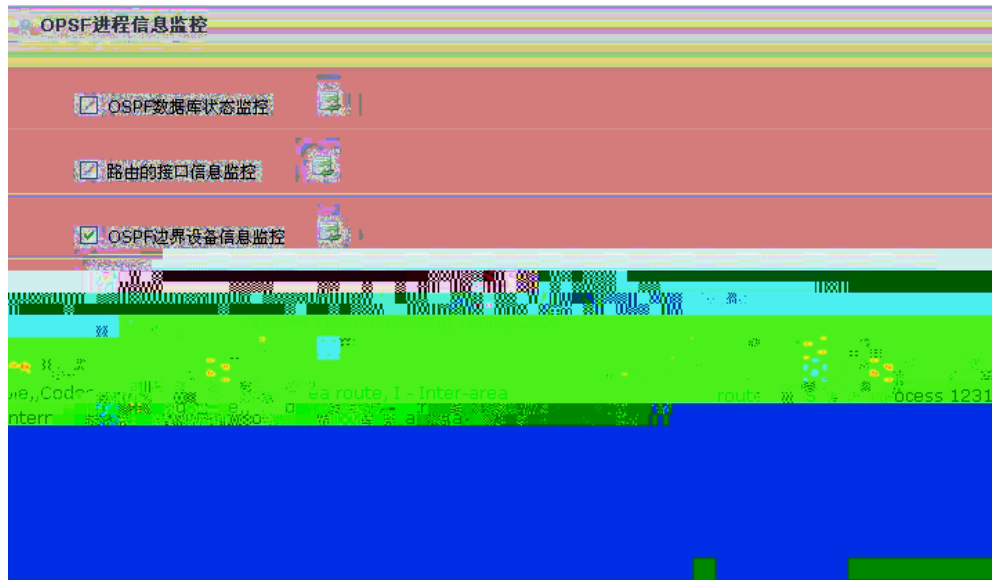
12.2.3.2

OSPF , OSPF , OSPF
 OSPF , 2000 OSPF , 000



12.2.3.3 OSPF

OSPF , OSPF , OSPF
OSPF , OSPF , OSPF
OSPF , OSPF :
OSPF , OSPF



13

13.1

KYV

\hhd \cWU %* 7@ KYV

KYV

%!%

用户权限	操作	用户名
配置管理员	修改 删除	test
超级管理员	修改 删除	admin

%!%

13.2

%!%

%!&

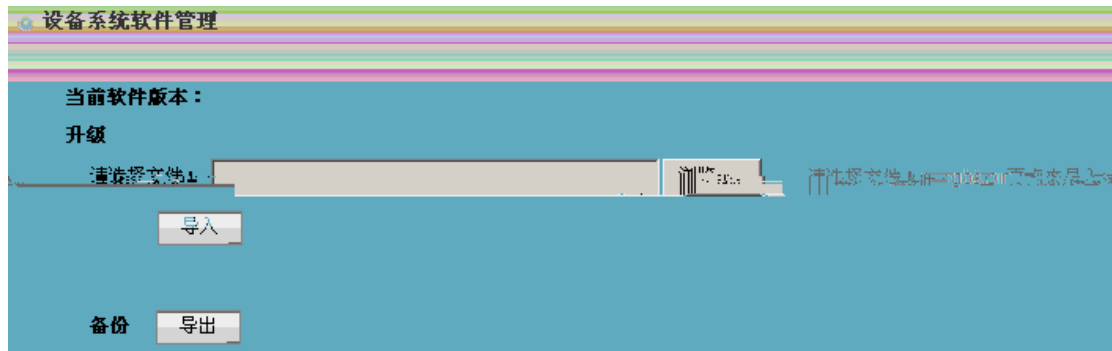
%!&

	=8

14.1

2

%!%



%!%

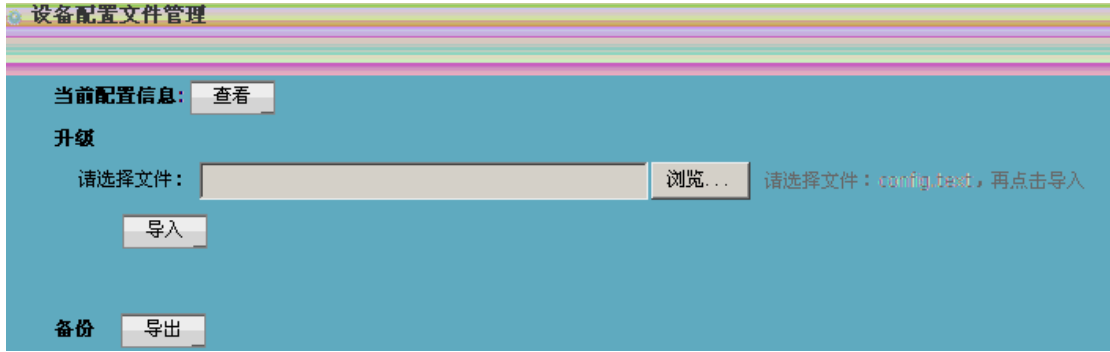
f[cg"V]b

V]b

f[cg"V]b

f[cg"V]b

- =9
-



%!&

WbZ] ["hYl h
WbZ] ["hYl h

-
-
-

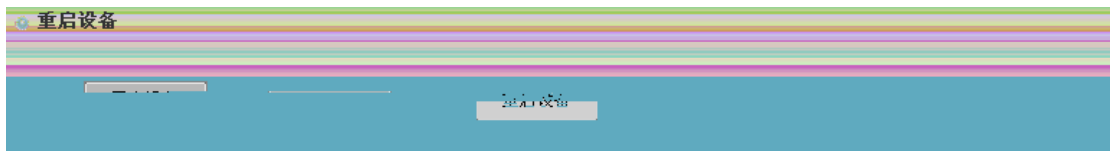
=9

WbZ] ["hYl h
Z Ug\

14.3

2

%!'



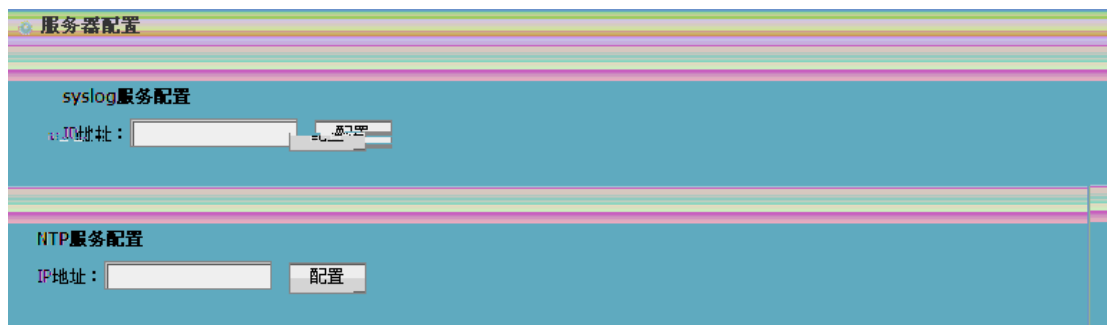
%!'

KYV

15.1SYSLOG

2

%!%



%!%

=D

15.2NTP

=D