



**Web**

**RGOS 10.3(4b6)p1**

©2000-2012

<http://www.ruijie.com.cn/>

<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](mailto:service@ruijie.com.cn)

# RGOS®10.3 (4b6)p1

**1.**

Courier New

5

**2.**

Arial

```
[] []  
{x|y|...}  
[x|y|...]  
//
```

**3.**

**4.**





KYV                      KW                      KYV                      cW  
                                  %' \* <HD                      KYV  
                                  =9, " \$                      =D  
 % & % , " & % %                      KW                      % &  
 fi ] ^ ] Y                      % & ( ) \*                      0    2

% &

### 1.3 KW

KYV                      0    2                      KW

### 1.4

KYV    %'

%' KW



---

A \*SS! : K fWbZ] [L#] d \hhd U h\Ybh] Wb] cb 3  
YbUV Y IgY YbUV Y dUggkcfXg  
`cW IgY `cW i gYfblâY UbX dUggkcfXg

YbUV Y

KV

2

2.1

71

2.2

KV

& %

& %

# 3

## 3.1

KV J@5B 6J= J@5B J@5B  
J@5B J@5B J@5B =D J@5B J@5B J@5B  
6J= =D J@5B  
J@5B J@5B 6J=  
J@5B J@5B 6J=

## 3.2

3.2.1 J@5B

3.2.1.1 J@5B

2 J@5B '!%

'!% J@B

J@B				
=D #	IP DHCP	IP	IP	IP
	ID 8KB Ž ... !			
	57@	]b#ci h	57@ 57@	57@
	57@ =D			
		=D		

3.2.1.2 J@B

J@B

'!%

J@B

'!&

'!& J@B

J@B =8	J@B	=8			
=D	=D	=D	=D	=D	=D
=D	=D		=D		=D
=D	J@B	=D	=D		
		=D	=D		
=D	J@B	=D	=D		
	=D				=D

3.2.2 6J=

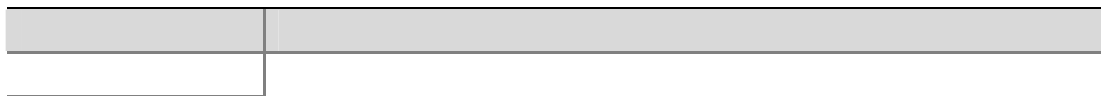
3.2.2.1 6J=

2

J@5B

3-3

'!



J@5B

J@5B

J@5B

=D





# 4

## 4.1

### 4.1.1

=D ]d =D =D

### 4.1.2

2 (!%

(!%

=D	=D
	&
	=D

### 4.1.3

(!& (!%

=D (!&  
=D

### 4.2

(!' 2

(!'



## 4.3

### 4.3.1

, \*\$\$! :K =D

]d Z ck Z ccX

]d

]Wd Z ccX iXd Z ccX

### 4.3.2

<sup>2</sup>  
(!(

(!(





8cG 8Yb]U cZGfj]W

8cG QNB : `ccX

:fU[ `Y

d]b[ =7AD H7D  
H7D I8D



H/D#-D

H/D

GNB : `ccX



	ddg
	=D

#### 4.4.4

2

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

4.4.5.1      =D : @CC8  
(!,

(!,      =D : @CC8

=D : @CC8	.      =D : @CC8 =7AD : @CC8
	ddg
	=D : @CC8

4.4.5.2 =7AD

(!-

(!- =7AD

=7AD	. =7AD =7AD
=7AD	=7AD ( \$\$\$ VmYg VmY =7AD

4.4.5.3 GMB : @CC8

(!%\$

(!%\$ GMB : @CC8

GMB : @CC8	GMB : @CC8 GMB : @CC8
=D  57@	GMB : @CC8 =D 57@ 57@ 57@

	GMB : @CC8

KYV                      GMB : `ccX      %                      =D      &

57@                      =D

%L                      =D                      GMB                      (!%%

(!%%      GMB : @CC8

=D	GMB : @CC8                      =D

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

4.4.5.4 I8D: @08

(!%&

(!%& I8D: @08

I8D: @08	I8D: @08 I8D: @08



(!% =7AD: @CC8

=7AD: @CC8	=7AD: @CC8 =7AD: @CC8
=D	=7AD: @CC8      =D      57@ 57@      57@      57@ 57@ =7AD: @CC8 =7AD: @CC8 =7AD: @CC8

%L      =7AD: `ccX      %      =D/ &L      57@  
=7AD: @CC8      (!%

(!% =7AD: @CC8

--	--



5

)!%

)!&

)!&

=D	=D
----	----

**5.2.2** =D

**5.2.2.1**

=D

=D

)!'

)!' =D

	=D XYZU`h
=D	=D
=D	=D =D
	hfUd hfUd
	hfUd %
	%
	&

)!



	%
%	
&	

**5.2.2.3**

%

2

)!\*

)!\*

5 → 6	5		6
5 ← 6	6		5
5 ↔ 6	5	6	
5 ✕ 6	5	6	



	=D	=D
	=D	=D
5 → 6	5	6
5 ← 6	6	5
H/D# 8D		

,Â!, œlHeÜÒ 8x 4 ±<sup>0</sup>" 4æ Â<sup>1</sup> «,X )&à)†Ð @

#### 5.2.2.4

=D

5.2.2.5

=D

=D

)" & " & "

2

)!-

)!-

=D	=D

5.2.3

5.2.3.1

)!%\$

)!%\$

	XZU`h

5.2.3.2

)!%\$

)!%%

)!%%

	, , , 16



# 6 ACL

## 6.1

57@ 5Wgg 7cbfc` @gh

57@

f5W



579

579

579

A

KV =D =D =D  
A57 A57 9 d f h  
7@

**6.2.4 579 57@**

ACL ACE 2  
ACL ACE ACL IP  
ACL ACE ACL IP IP

6-3 ACE

57@	579 Dfa] h 8Ybm
=D	=D
=D	=D
	& % \$
	579

&L    57@    579  
 ACL    ACE    6-1    ACE    ACE    6-4    ACL    ACE

6-4 ACE

57@	579 Dfa] h 8Ybm
=D =D	=D =D =D =D
	579

# 7 NAT

## 7.1

B5H BYhkcF\_ 5XXfYgg HFUbg` Uh] cb      =D      =D  
 =D      =D      B5H      =D      =D

## 7.2 B5H

### 7.2.1

B5H      =D      =D  
 =D      =D      =D  
 =D      =D  
 %      =D  
 &      =D

NAT

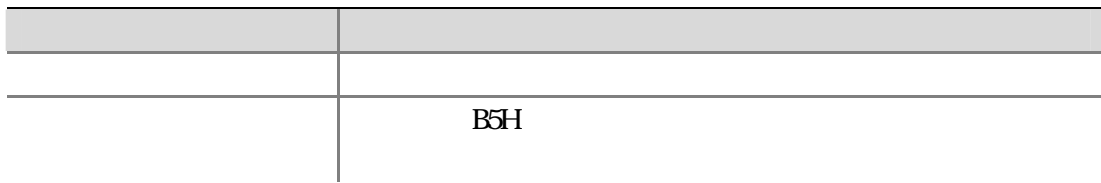
%	B5H	B5H	B5H
&	B5H	NAT	
		=D	
		=D	
		=D	

+!% B5H

NAT  
NAT

NAT  
7-2

7-2 NAT



**7.2.3**

**=D**

NAT  
7-2

7-1

IP

+! & =D

			=D	fl
	B5H	L		
	&			
	%	!!!!		
	&		!!!!	
=D			=D	=D
		B5H		

### 7.2.4

=D

B5DH

8AN

2 B5H

B5H

=D

+!'

+' B5H

=D

--	--

=D

B5H

=D

--	--

=D

:1026

4:172.18.3.7 udp(2002)

1026

172.18.3.7

2002

UDP

=D

--	--

=D

%

%

=D

%

--	--

=D

B5H

=D

=D

=D

B5H

+'

=D

=D

+' (

+!( =D

=D	& =D— B5H — B5H	=D	
=D	B5H	=D	=D Ž
		B5H B5H	

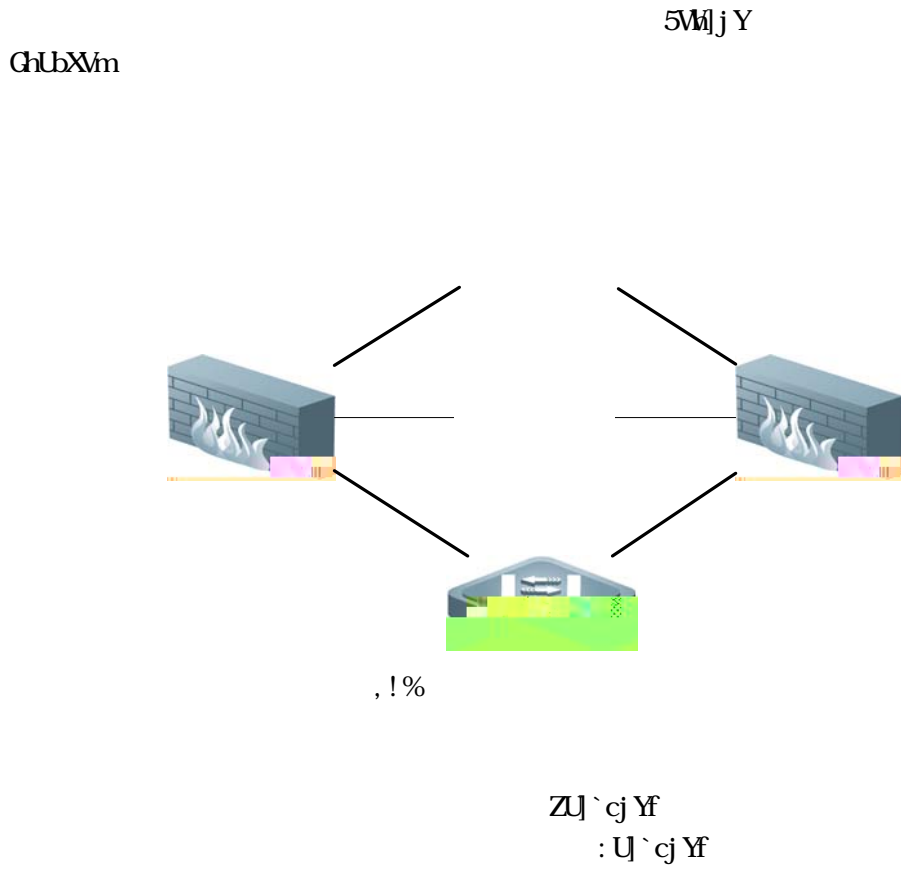
7.2.5

B5H =D f% % % Ł =D =D  
+!'  
+!)



# 8 HA

## 8.1



## 8.2

<5

2 <5

<5

,!%

fai lov

, !% <5



<5

5Mj Y

A

,!&

8.3 <5

<5                    2 <5                    <5                    <5                    22 ž  
,!'

,!' <5

<5

%	<5	
&	#	
'	:U`cj Yf	:U`cj Yf J@B ZU`cj Yf =D =D =D =D  =D

9

9.1

G\*

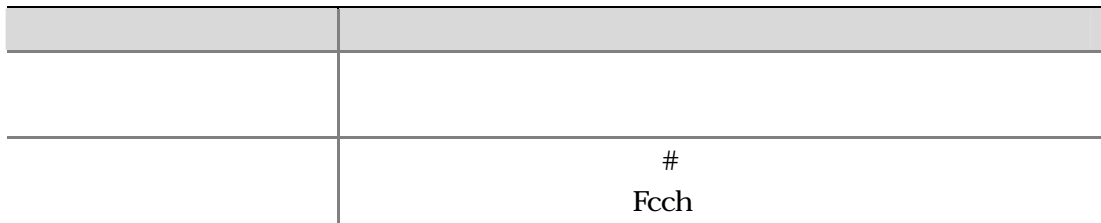
IP

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

2

%!%

%!%

=D	=D
#	=D
	=D



=D	IP
	IP

IP

=D

#

DDD

DDD

=D

B6A5 D&AD

=D

=D

J]fhi U!Hyad Uy J@5B

--	--

% kY] [\h K7AD

kY] [\h

K7AD ,

K7AD

K7AD ,

: ]fYkU `fWbZ] [L#] d fci hY %\$ " \$ " \$ \$ & ) " \$ " \$ " \$ % + & " \$ " % &  
kY] [\h \*

: ]fYkU `fWbZ] [L#] d fci hY %\$ " \$ " \$ \$ & ) " \$ " \$ " \$ % + & " \$ " % (   
kY] [\h \*

## 10.2

### 10.2.1

%

2

%\$!'

%\$!'

### 10.2.2

[10-3](#)

10-4



10-5



ff ci hY! aUdL



=D

%)

## 10.2.4

10-6 10-3

10-6

# 11 RIP

## 11.1

RIP (Routing Information Protocol)



% & % & F=D

## 11.2.1.2 RIP

%

F=D

—2

% % & % , "% \$ " \$ # & {

"

#

% & % ' "

ž

&

& % & % , "% \$ " \$ & ) " & ) " & ) " \$

% & % '

### 11.2.1.3 RIP

የገቢት ገቢት +

የገቢት ገቢት ,

የገቢት ገቢት +

የገቢት ገቢት ,

### 11.2.1.4

የገቢት ገቢት -

የገቢት ገቢት %

የገቢት ገቢት -

የገቢት ገቢት %

### 11.2.1.5 RIP

F]d

የገቢት ገቢት %

%% & %% F=D

]d

%

%% & %%&

&

]d

% &'%, ")"& ' '

% & ' '

]d % &'%, ")"&

%% & %% "

%

]d

% &'%, ")"&

ž %% & %%( &

%% & %%&

## 11.2.2 RIP

RIP

F=D

J@5B

F=D

%% & & %

—2      % & & % F=D  
         —2  
         % & & &

J@5B      F=D

% & & &

### 11.2.2.1

F=D      —2      —2      % & & &  
   % & & & '

fP&L &  
 fU %&'%"%S" S#% # %& & & ( fV %&'%" S" S  
 Q)" Q)"% &' S ž  
 %& & & )  
 f&L ž  
 %& & & \* %&'%) F=D  
 %&'%'& F=D

接口级路由汇聚:

%& & & '

接口级路由汇聚:

%& & & (

%& & & )

%& & & \*

### 11.2.2.2

F=D —2 —2 %& & & &  
 f]d

### 11.2.2.3

F=D      —2      —2      %& & &  
f]d

### 11.2.2.4      RIP

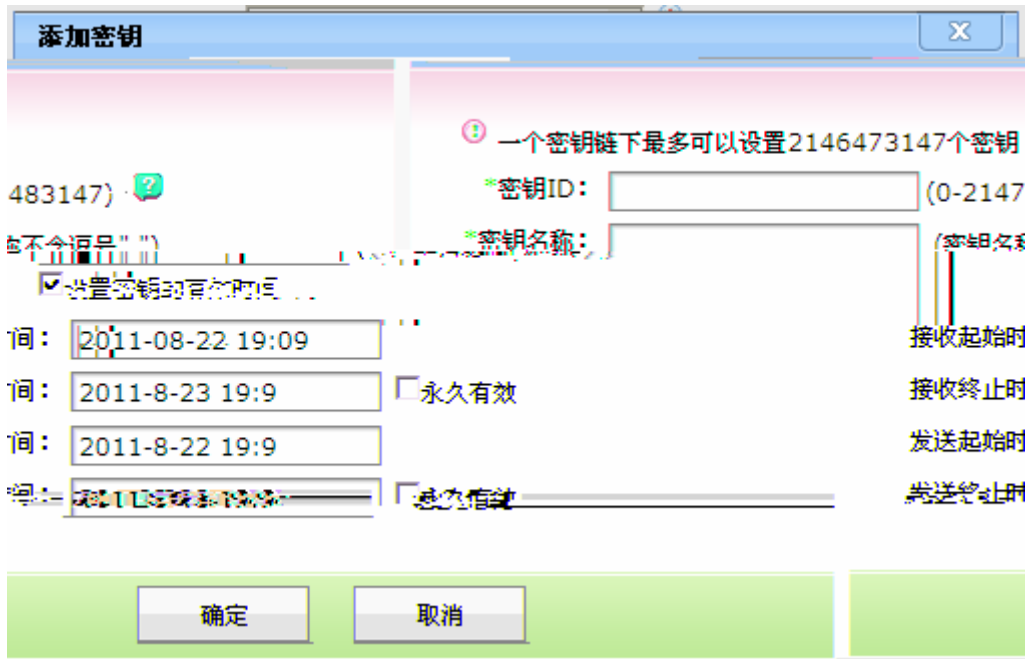
F]d      '      %& & +      U      V  
W A8)      U      fM  
%& & ,      %' & & )      fM  
%-%  
%& & -



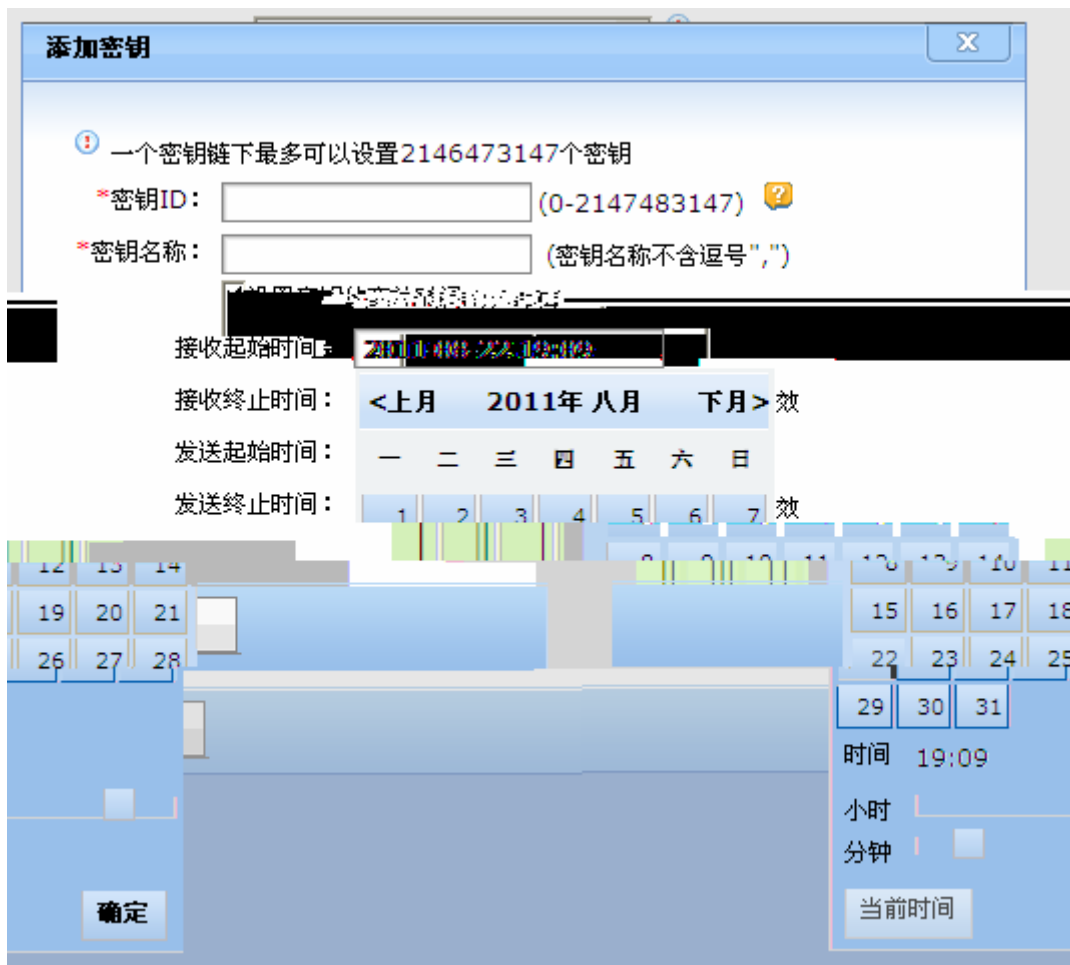


%&&%

fi ] ^Y



%% & & %



%% & & %

密钥链管理 <span style="float:right">+添加 ×删除</span>		
<input type="checkbox"/> 密钥链名称	密钥ID/密钥名称	操作
<input type="checkbox"/> hello	1/network	+添加密钥 ×删除

%% & & %      %#bYhkc\_f\_

<input checked="" type="checkbox"/> hello	1/network	+添加密钥 ×删除
---	-----------	--------------


%% & & %

密钥链管理 <span style="float:right">+添加 ×删除</span>		
<input type="checkbox"/> 密钥链名称	密钥ID/密钥名称	操作
<input type="checkbox"/> test		+添加密钥 ×删除
<input type="checkbox"/> ruijie		+添加密钥 ×删除

%% & & & %

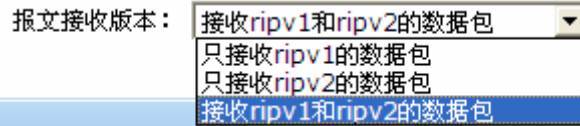
密钥链管理 <span style="float:right">+添加 ×删除</span>		
<input checked="" type="checkbox"/> 密钥链名称	密钥ID/密钥名称	操作
<input checked="" type="checkbox"/> test		+添加密钥 ×删除
<input checked="" type="checkbox"/> ruijie		+添加密钥 ×删除

%% & & & %

密钥链管理 <span style="float:right">+添加 ×删除</span>		
<input type="checkbox"/> 密钥链名称	密钥ID/密钥名称	操作
 没有相关数据		

%% & &&

### 11.2.2.6



%% & & &

### 11.2.2.8

f]d

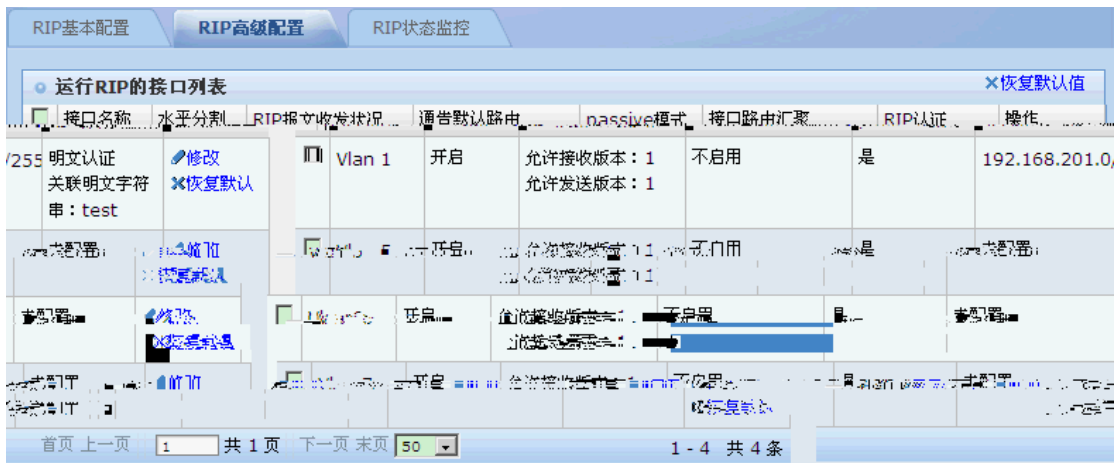
%% & & &

F=D

%% & & ' S



%% & & &



%% & & ' S

### 11.2.2.9 VLAN

%% & & ' S

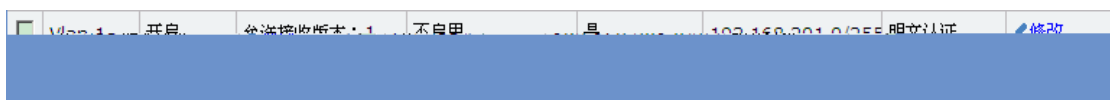
J@5B &

%% & & ' %



×恢复默认

%% & & ' % " j`Ub&



%% & & ' %

<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	<a href="#">修改</a> <a href="#">×恢复默认</a>
--------------------------	--------	----	----------------------	-----	---	-----	-----	---

%% & & ' &

## 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

—

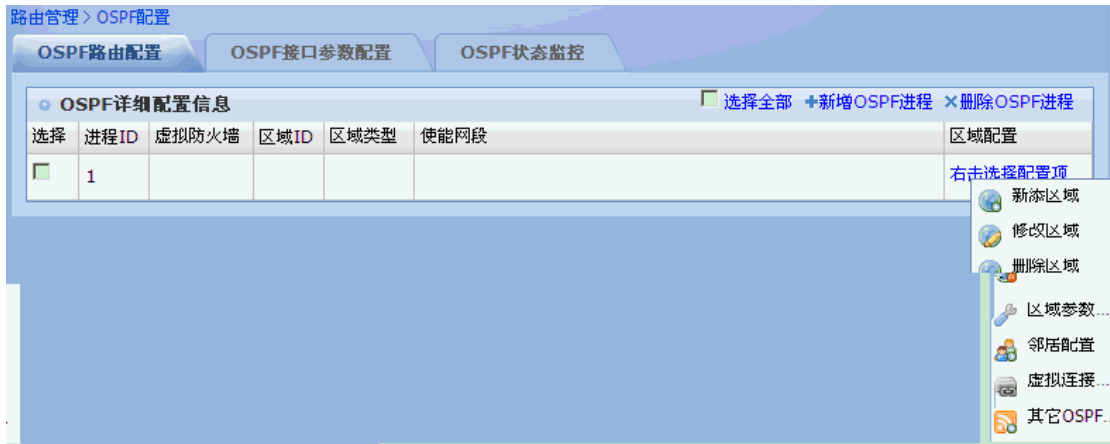
MD5

—

VLSMs

NSSA Not So Stubby Area RFC 3101

Graceful Rest Jx)r),(X)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

OSPF IP OSPF OSPF IP IP OSPF

OSPF

OSPF

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

<b>Step 5</b>	Ruijie (config-router)# <b>end</b>	
<b>Step 6</b>	Ruijie # <b>show ip protocols</b>	
<b>Step 7</b>	Ruijie # <b>write</b>	

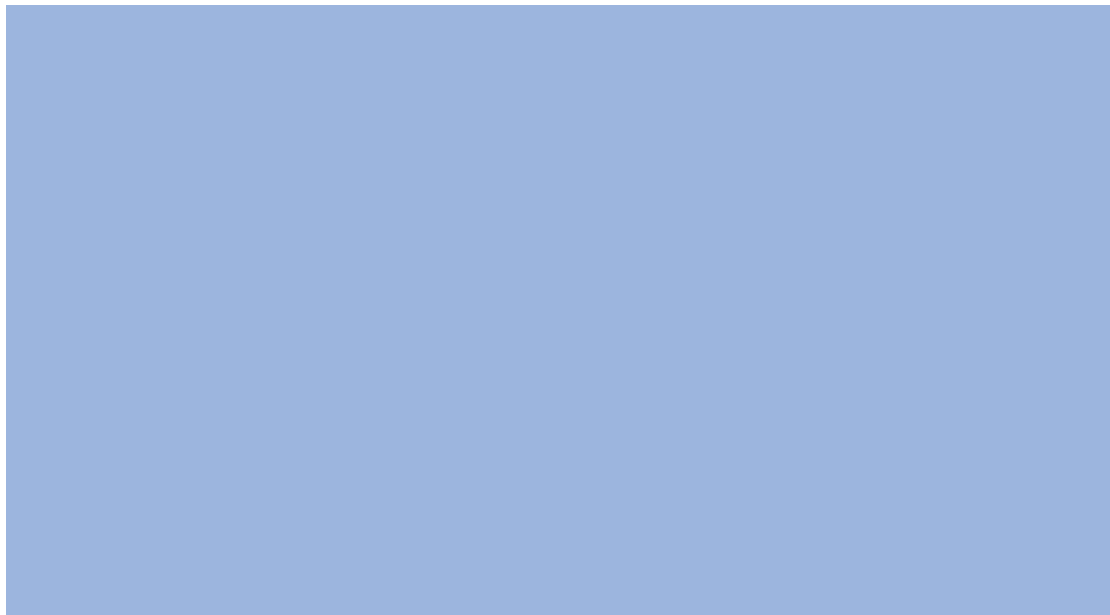
NSSA    STUB                    OSPF  
    OSPF

### 12.2.1.1 OSPF

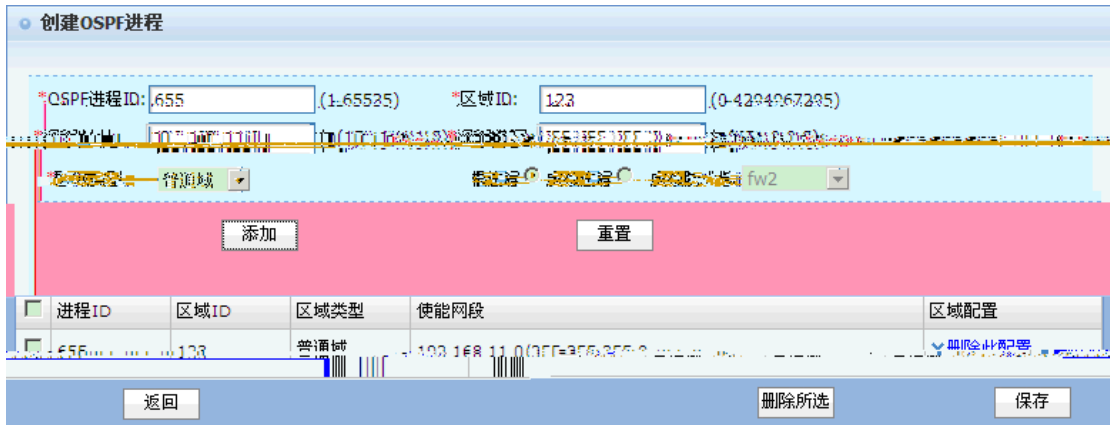
200D

+新增OSPF进程

00D



ID



OSPF

### 12.2.1.10.OSPF

2000

000

=8

000



### 12.2.1.1.3.1

### OSPF

CGD

=8

**添加区域信息** X

\* OSPF进程ID:

\* 区域ID:  (0-4294967295)

\* 区域类型: 普通域 ▼

\* 区域网段:

CGD	=8	CGD
	=8	
		CGD

### 12.2.1.1.3.2

### OSPF

CGD

=8



OSPF	=8	OSPF
	=8	OSPF
		OSPF

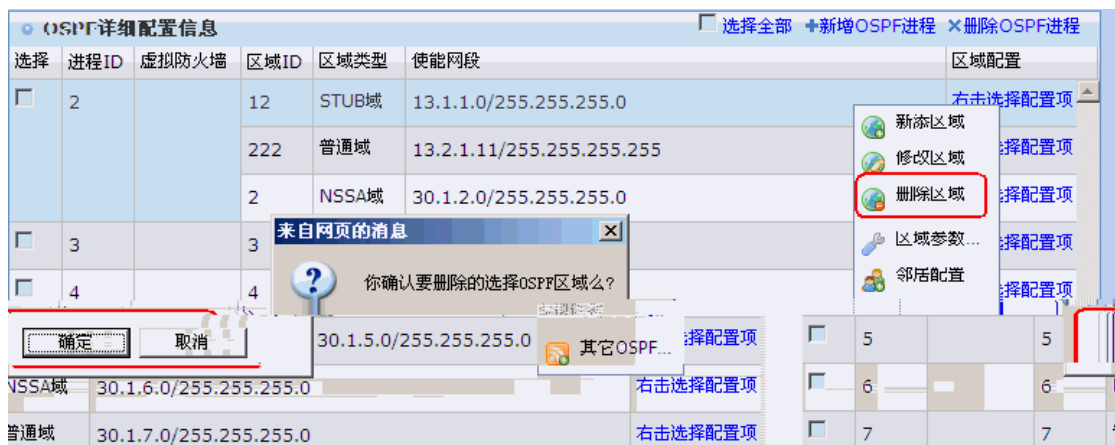
### 12.2.1.1.3.3

OSPF

=8

3

"



### 12.2.1.1.3.4

### OSPF

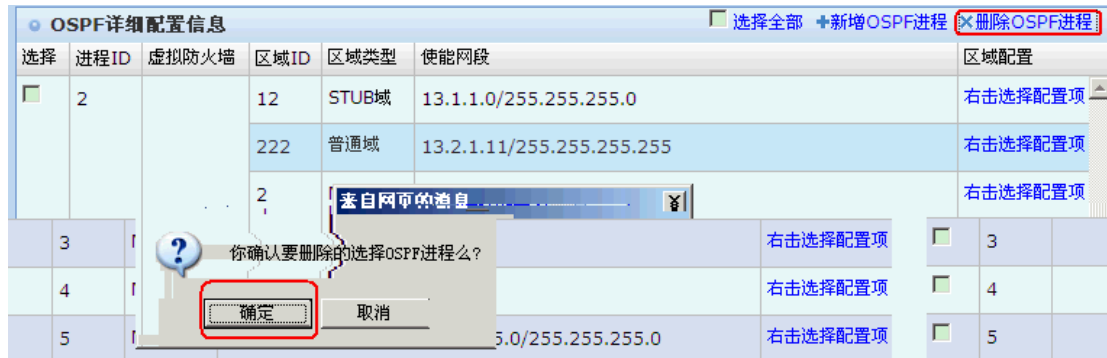
CCD

ž

CCD

ž

OSPF



### 12.2.1.2

#### 12.2.1.2.1.1

OSPF

OSPF

## 12.2.1.2.1 NSS

### 12.2.1.2.2.1 NSS

NSSA(Not-So-Stubby Area) OSPF STUB ,NSSA  
5 LSA(AS-external-LSA) NSSA ,  
STUB NSSA OSPF  
NSSA 7 NSSA 7  
LSA NSSA 5 LSA  
NSSA  
NSSA NSSA  
NSSA NSSA NSSA area  
nssa NSSA  
NSSA







12.2.1.2.4



RGOS  
    OSPF  
        message-digest  
message-digest  
    OSPF

MD5

OSPF

**ip ospf authentication-key**  
**ip ospf message-digest-key**      MD5

**12.2.1.2.4.2**

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

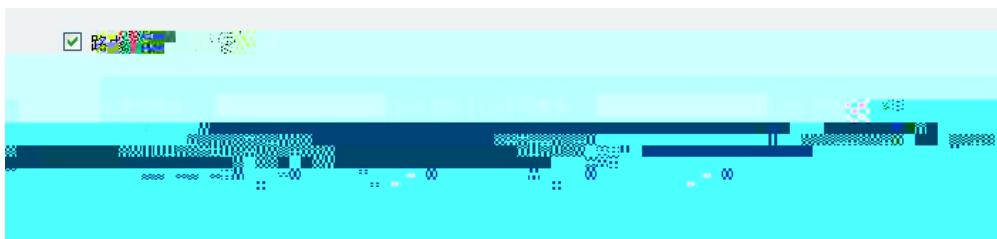
<i>area-id</i>	OSPF IP
<i>ip-address net-mask</i>	
<b>advertise   not-advertise</b>	
<b>cost cost</b>	0-16777215

cost RFC1583 RFC1583  
cost

ABR  
advertise not-advertise  
cost OSPF  
area range

### 12.2.1.2.5.2

!2 =8  
ž ž ž



--	--

<i>ID:</i> <i>area-id</i>	OSPF IP
<i>IP</i> <i>ip-address</i>	IP,
<i>net-mask</i>	,
<b>advertise   not-advertise</b>	,advertise , not_advertise
<b>cost</b> <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
<b>access   prefix</b>	prefix list ACL
<b>in   out</b>	

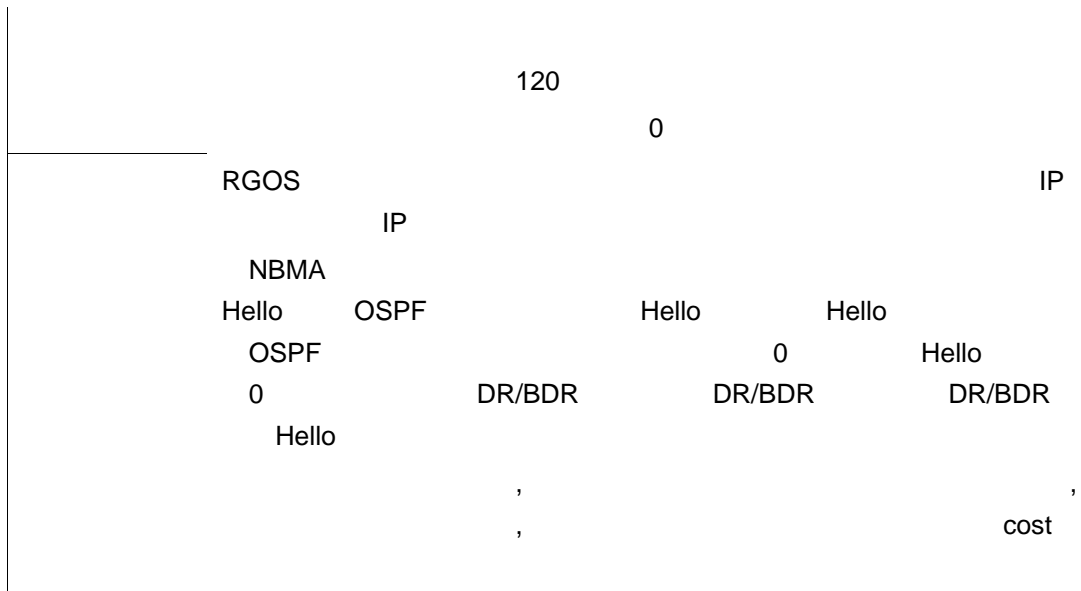
ABR

ABR

ACL ,prefiex



	0-255	(NBMA)
<b>cost cost</b>	1-65535	cost (point-to-multipoint)



12.2.1.3.2

CCD !2 CCD =8  
ž



保存	,
取消	,
重置	

## 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]
  [

```

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

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

12.2.1.4.2

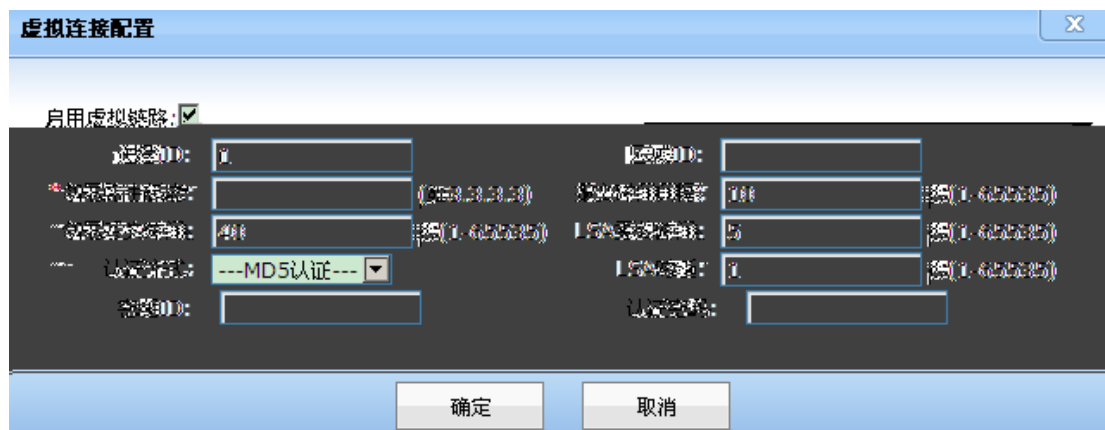
CGD

!2

CGD

=8

ž



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



12.2.1.5.2

**12.2.1.5.2.1**

ž CGD

CGD

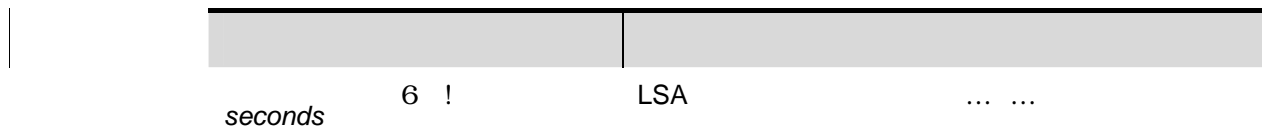
)

LSA

**no**

**timers lsa-group-pacing** *seconds*

**no timers lsa-group-pacing**



```

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

```

**passive-interface [default | type *number*]**

**no passive-interface [default | type *number*]**

<b>type <i>number</i></b>	
<b>default</b>	

```

OSPF

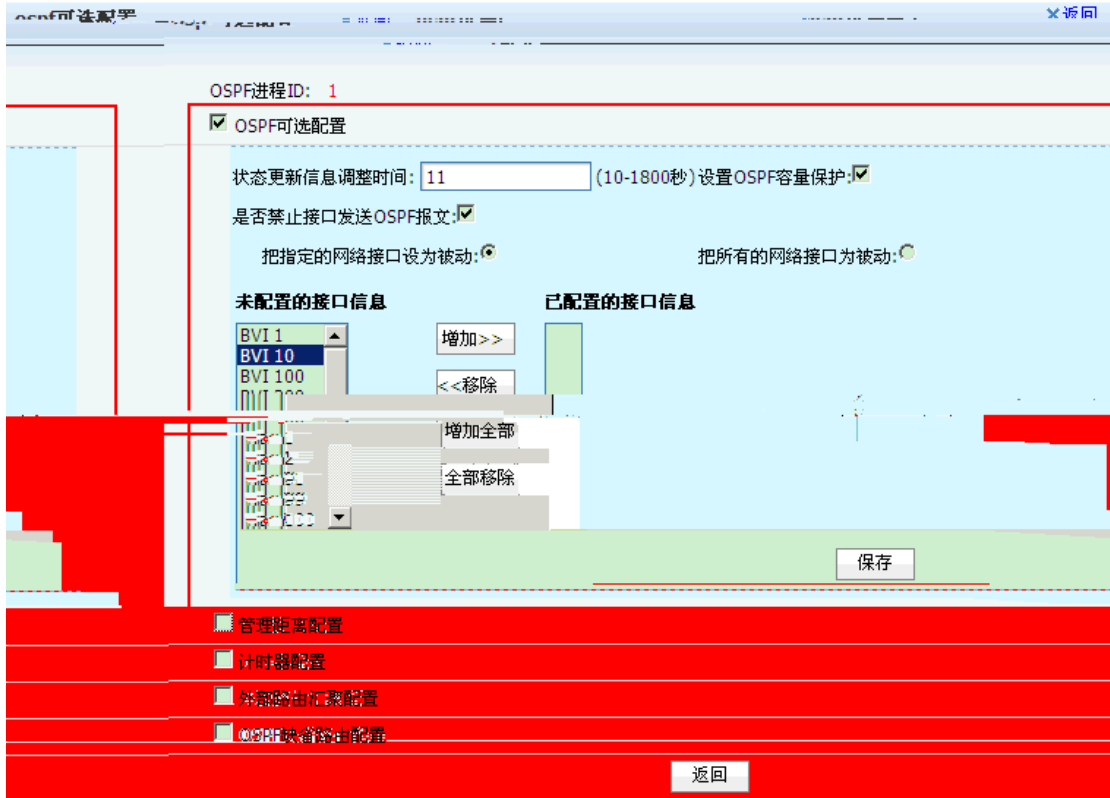
```

**12.2.1.5.2.2**

```

!2
=8
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*

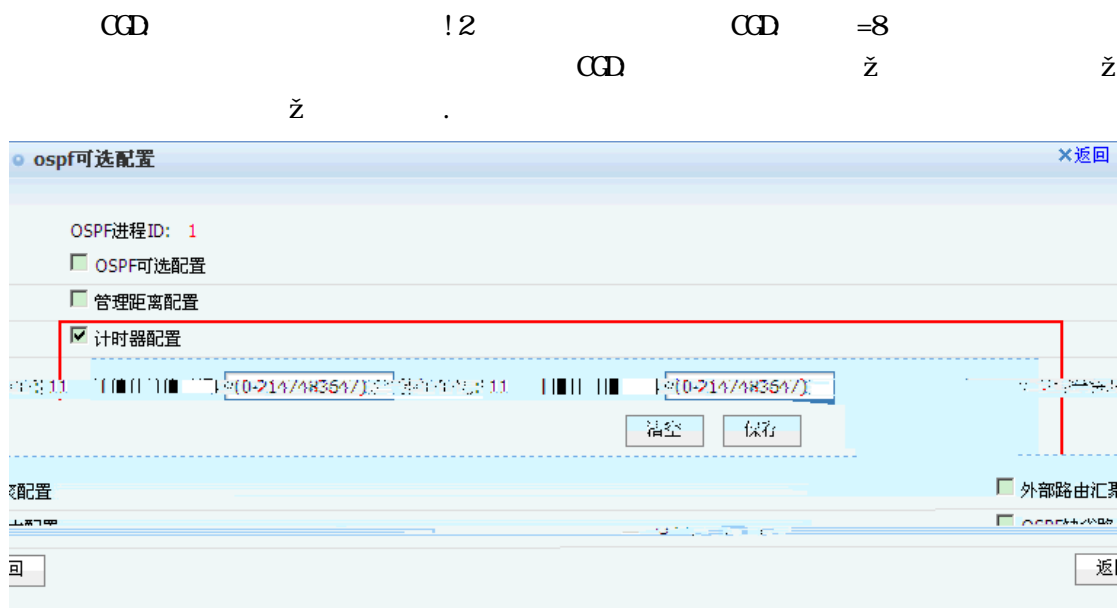
	<i>spf-delay</i>	SPF 0-214748364 ( ) OSPF	SPF
	<i>spf-holdtime</i>	SPF 0-214748364 ( )	
	<i>spf-max-waittime</i>		OSPF CPU timers throttle spf

	1 RGOS 10.4 timers spf 5 10	timers throttle spf	
	2 RGOS 10.4 SPF	timers throttle spf <b>timers throttle spf</b>	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	

	<pre> timers spf          timers throttle spf                     RSR2.0                     , timers spf-delay spf-holdtime </pre>
--	---

### 12.2.1.5.4.2



OSPF ID	
	0-214748364
:	0-214748364

### 12.2.1.5.5

#### 12.2.1.5.5.1

```

OSPF summary-address
no
summary-address ip-address net-mask {not-advertise tag value}
no summary-address ip-address net-mask {not-advertise tag value}

```

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

	OSPF
	OSPF
	<b>area range</b> area range OSPF
	summary-address OSPF
	NSSA <b>summary-address</b> 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]

```

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

	<b>metric</b> 1
	<b>metric-type</b> 2

	<b>redistribute</b>	<b>default-information</b>	OSPF	ASBR
		ASBR		OSPF
		ASBR	<b>default-information originate</b>	
	<b>always</b>	OSPF		
	<b>show ip ospf database</b>	OSPF		0.0.0.0
		OSPF	<b>show ip route</b>	



router\_map

route-map

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

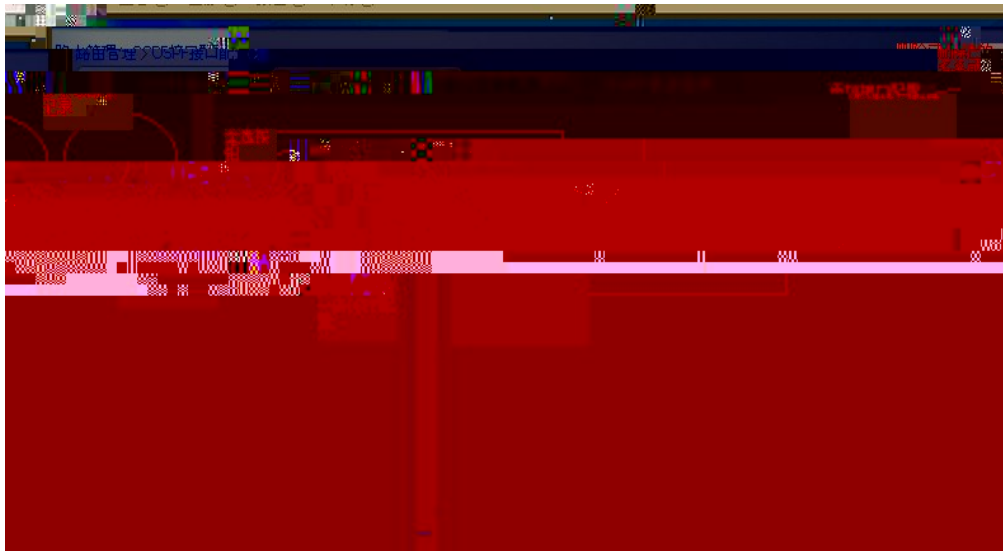
•

### 12.2.2.2

2000

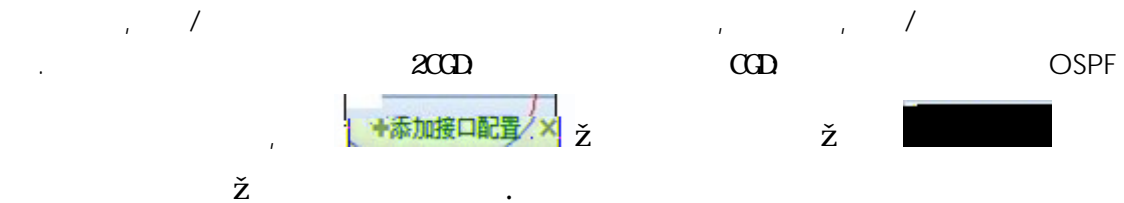
000

OSPF



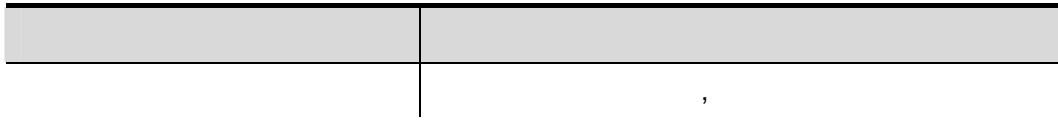
### 12.2.2.3

, /



**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"/>	重传间隔:	<input type="text"/>
传输延迟:	<input type="text"/>	hello报文间隔:	<input type="text"/>
失效间隔:	<input type="text"/>	优先级:	<input type="text"/>
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 ( )	, , <b>bfd</b> <b>all-interfaces</b> <b>ip ospf bfd</b> BFD OSPF <b>bfd all-interfaces</b> OSPF BFD <b>ip ospf bfd disable</b> BFD
---------	---

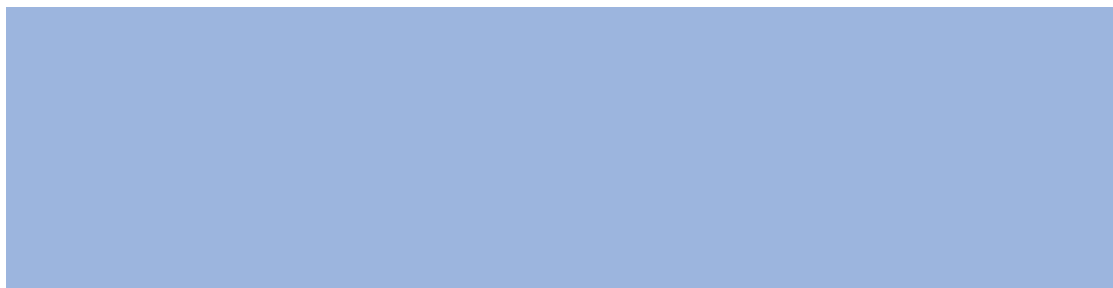
OSPF ( )	, , network area network ospf OSPF OSPF , ,
----------	--

( )  
 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>

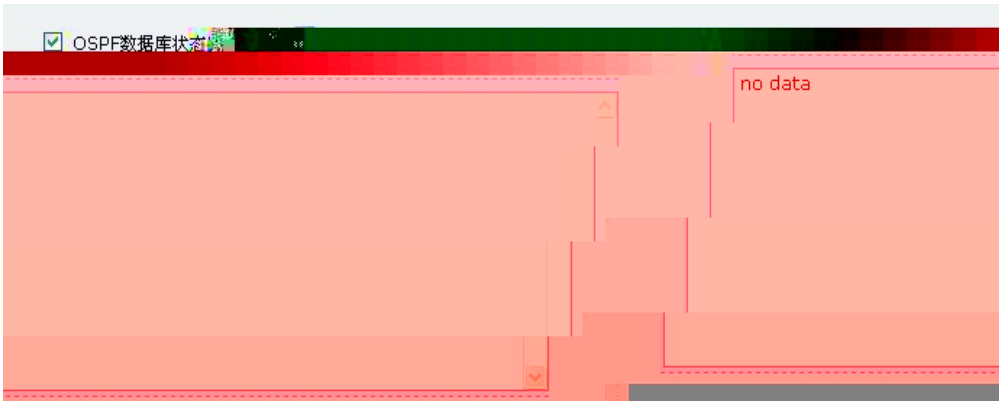
### 12.2.3 OSPF

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



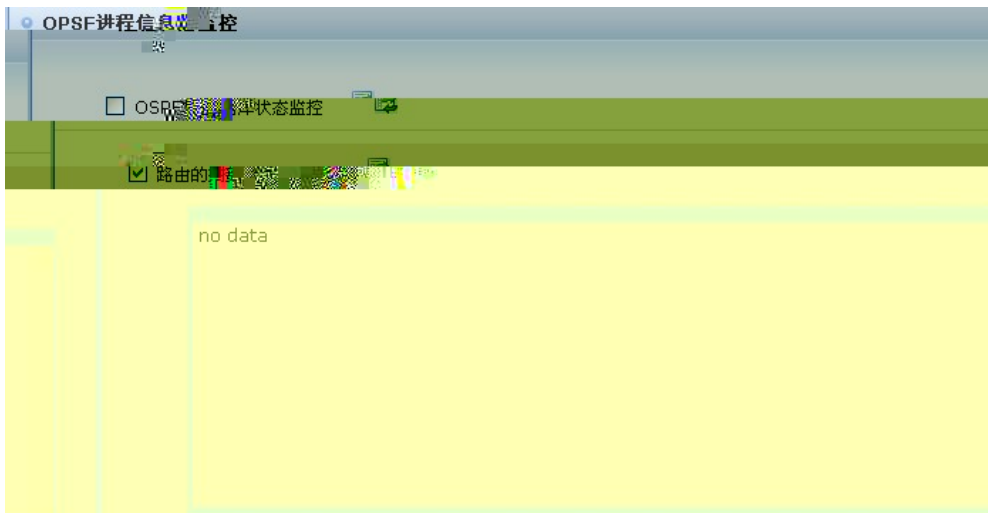
#### 12.2.3.1 OSPF

OSPF , OSPF , OSPF  
 OSPF , OSPF , OSPF

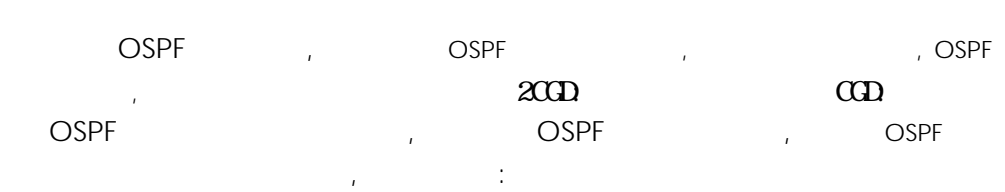


### 12.2.3.2

OSPF , OSPF , OSPF  
 OSPF , OSPF , OSPF



### 12.2.3.3 OSPF



# 13

## 13.1

KYV

\hhd                      \cWU                      %\* 7@                      KYV

KYV                      %!%

用户名:

● 用户列表                      用户权限文件管理 +添加 ×删除 ↻刷新

操作	用户名	用户权限
<a href="#">修改</a> × <a href="#">删除</a>	test	配置管理员
<a href="#">修改</a> × <a href="#">删除</a>	admin	超级管理员

%!%

## 13.2

%!%                      %!&

**添加用户** ×

\*用户名:

\*密码:

\*确认密码:

用户权限: 超级管理员 ▼ ?

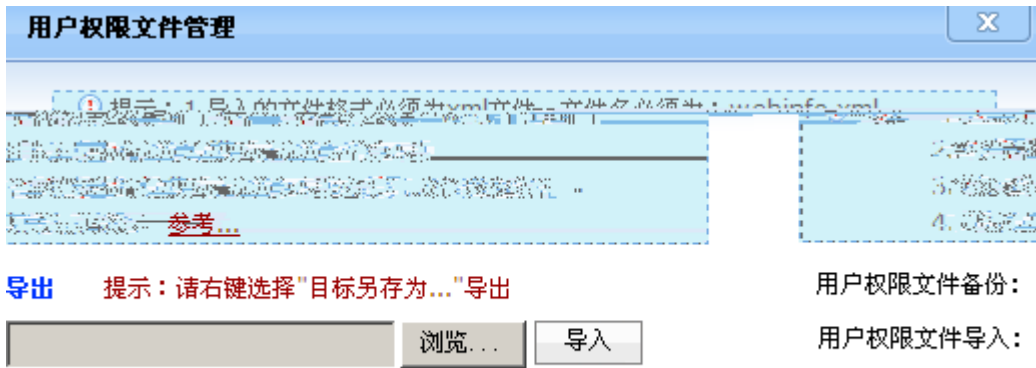
%!&

	=8

	# #
	#

### 13.3

%!%  
%!'



%!'

1.

2. la`  
kYJbZc"la` /

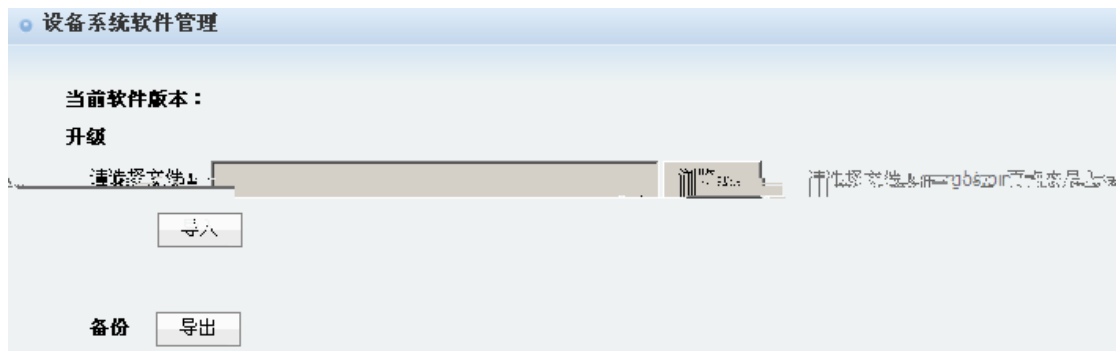
3.

# 14

## 14.1

2

%!%



%!%

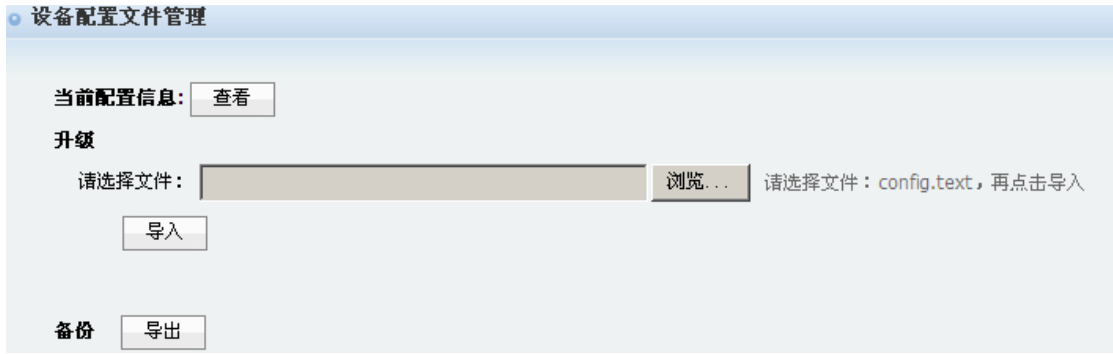
f[cg"V]b

V]b

f[cg"V]b

f[cg"V]b

=9



%!&

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

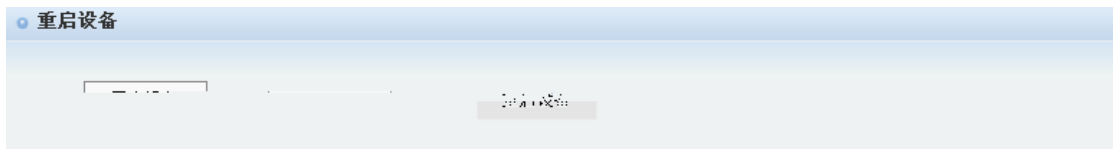
=9

WbZ] ["hYl h  
Z Ug\

## 14.3

2

%!'



%!'

KYV

15

## 15.1SYSLOG

2

%!%

The screenshot shows a configuration window titled "服务器配置" (Server Configuration). It contains two sections:

- syslog服务配置** (Syslog Service Configuration): Includes a label "IP地址:" followed by an input field and a "配置" (Configure) button.
- NTP服务配置** (NTP Service Configuration): Includes a label "IP地址:" followed by an input field and a "配置" (Configure) button.

%!%

=D

## 15.2NTP

=D