



Web

RGOS 10.3(4b6)p2

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

8:30 6

RGOS®10.3 (4b6)p2

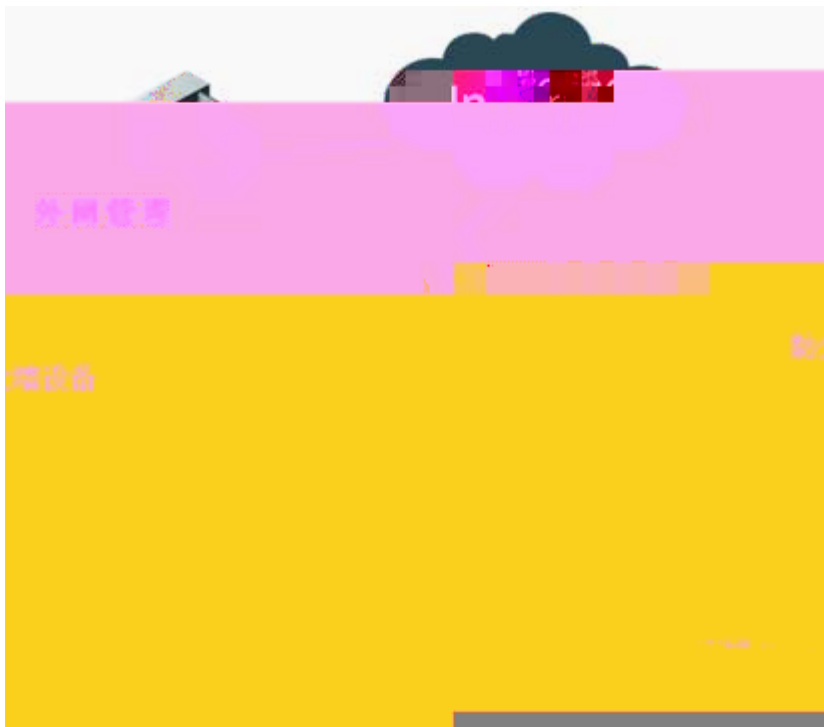
1.1

KV

D7

KV

% %



D7

KYV

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: Kl : 5=@CJ9F! 55! G7; "XcW 55

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J@5B ' ;][U]h9h\YfbYh %%% 5WYgg J@5B &

:]fYkU`# WbZ][ifY hYfa]bU

9bhYf WbZ][ifU]cb WaaUbXgž cbY dYf `]bY' 9bX k]h\ 7BH@#N'

:]fYkU`fWbZ][L# j`Ub &

:]fYkU`fWbZ][!j`UbL# Y]h

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:]fYkU`fWbZ][!]ZL# Y]h

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:]fYkU`fWbZ][L#]bhYfZUW Hb;][U]hYh\YfbYh (# %

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:]fYkU`fWbZ][!]ZL# dcfh! [fci d (

:]fYkU`fWbZ][!]ZL# Y]h

5[[fYhY]UhYdcfh (Hfi b_ J@5B &

:]fYkU`fWbZ][L#]bhYfZUW 5[[fYhY]UhYdcfh (

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\hhdg

:]fYkU`fWbZ][L#]YbUVYgYfj]W kYMgYfjYf \hhdg

(KYV `cWU

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)

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7@-

f&L

KYV

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' Ux]b

(

)

=D % &'%, " &S%% KYV % &
UX|b UX|b 0 >



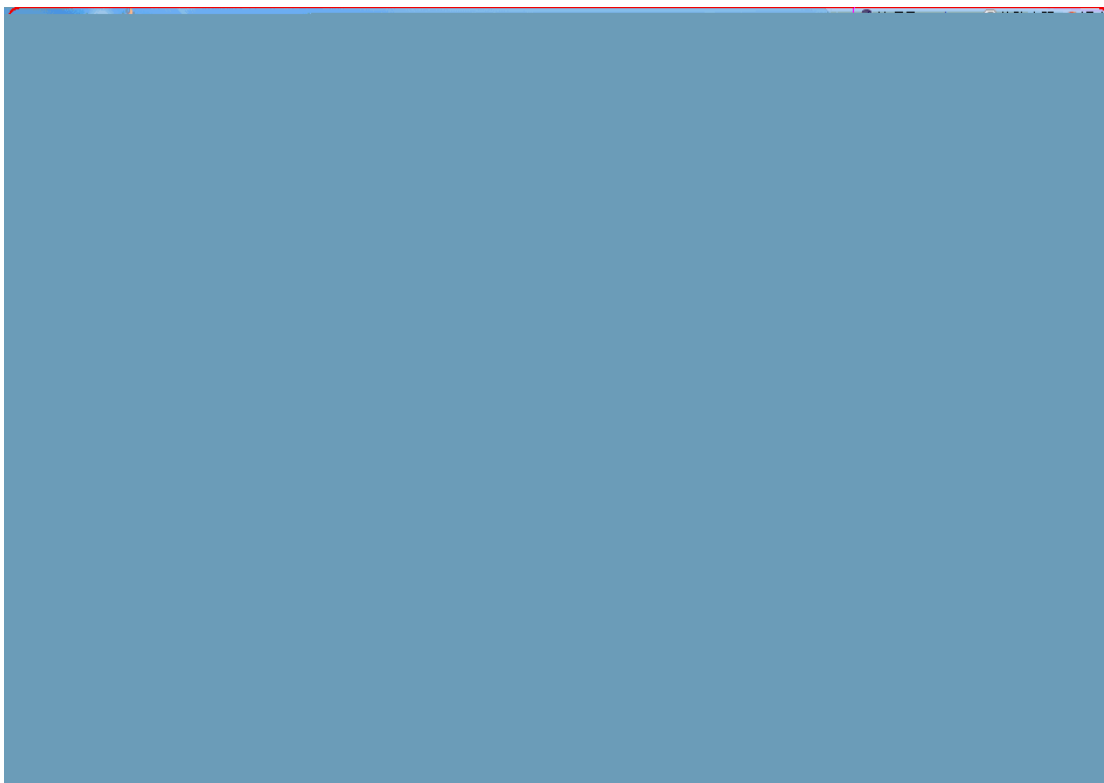
% &

1.3 Web

KYV 0 > KYV

1.4

KYV %'



%' KYV

http	<pre> Firewall(config)#ip http port ? 80 Default port number <1025-65535> Port number range </pre>
https	<pre> Firewall(config)#ip http secure-port ? 443 Default port number <1025-65535> Port number range </pre>
Web	<pre> Firewall(config)#ip http authentication ? enable Use enable passwords local Use local username and passwords enable username xxx password xxx admin Firewall(config)#enable password xxxxx local username xxx password xxx local local enable WEB local </pre>



1.7

f&LKYV A|WcgcZh =bhYbYh 9l d' cfYf *"\$ GD&
; cc[`Y 7fcaY

Acn] ``U:]fYZcl '*\$
=9, "\$

f&LKYV

KYV

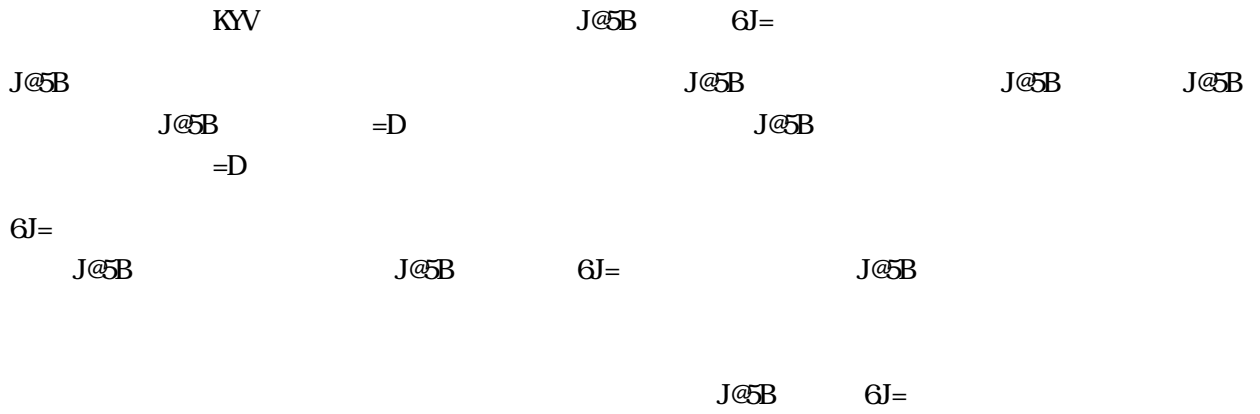
7D

KYV

&%



&%



3.1 VLAN

3.1.1



'!% J@B

		J@B		
=D #	IP	IP	IP	IP
	DHCP	IP		
	ID			
	8KB			

Ž ...
!

57@]b#ci h 57@ 57@
57@ 57@

添加VLAN
X

***VLAN ID:** (1-4094)

IP配置: 无IP配置 静态地址

IP地址:

掩码: 配置从IP 配置双机热备IP地址对

※从IP地址必须与主IP地址位于不同网段

描述:

状态: 启用 禁用

确定
取消

'! & J@5B

J@5B =8	J@5B =8
=D	=D =D =D =D =D
=D	J@5B =D =D =D
=D	J@5B =D =D =D
=D	=D =D =D =D

3.2 BVI

3.2.1

> J@5B
3 3



!!

	J@5B J@5B J@5B =D

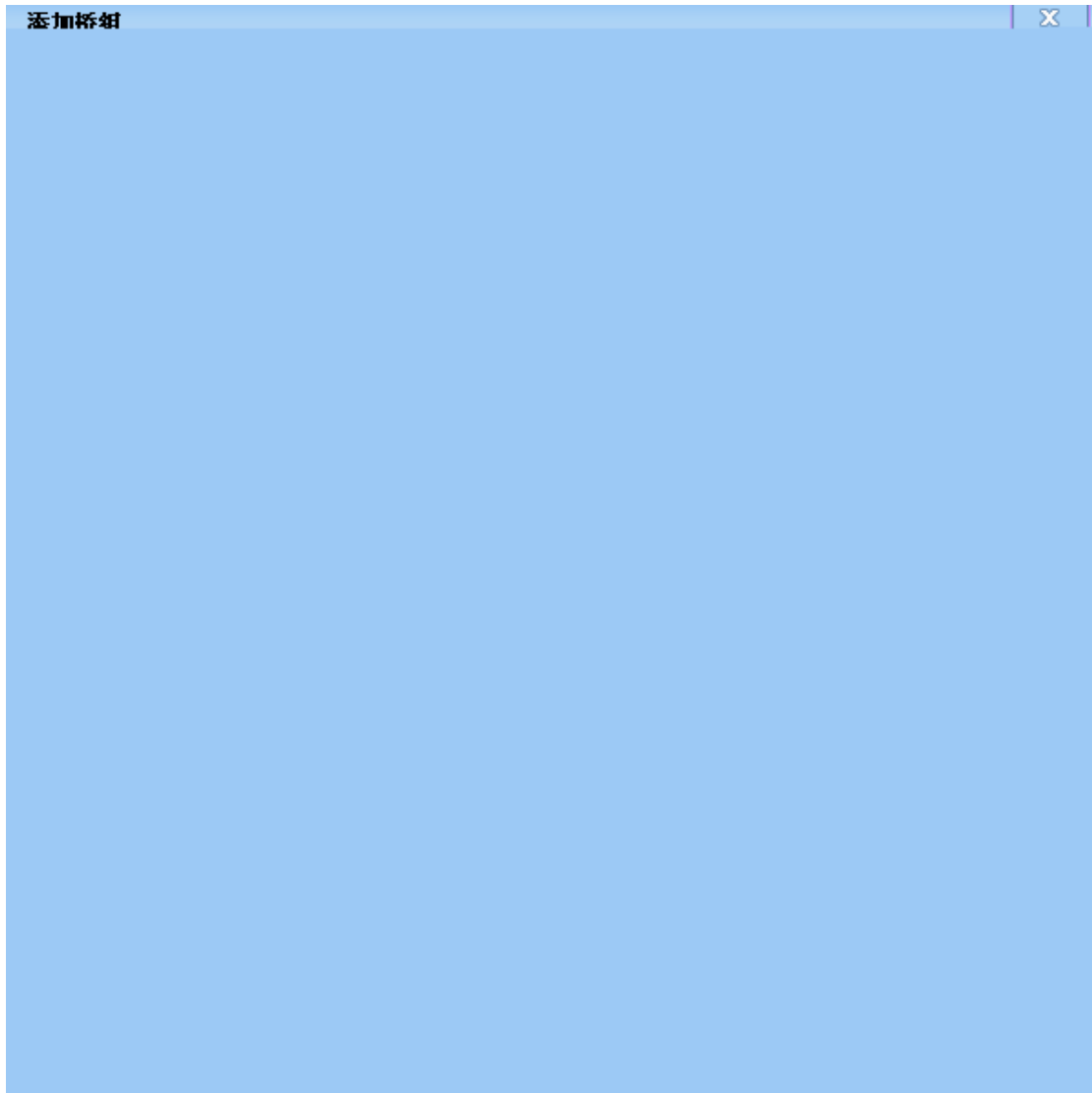
=D #	IP	IP	IP	IP	
	PPP	IP			
	ID				
	8CKB				
	Ž ...				
	!				
	=D	=D	DD		
	57@]b#ci h	57@	57@	
	57@		57@		
	=D	=D			

3.2.2

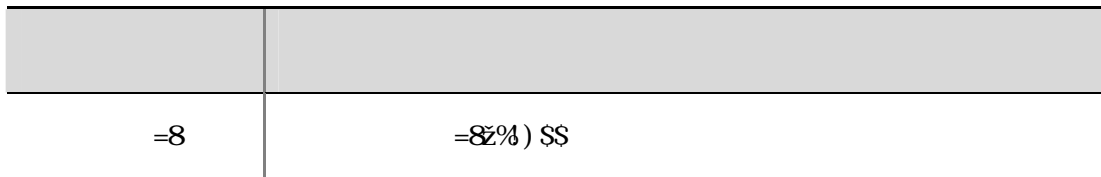
6J=

'!'

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'!(



=D #	IP
=D #	IP IP

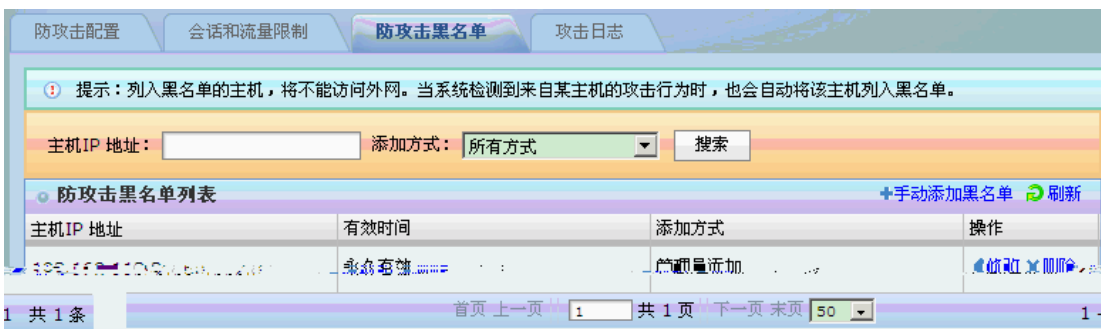
4.1

4.1.1

=D
]d =D
=D

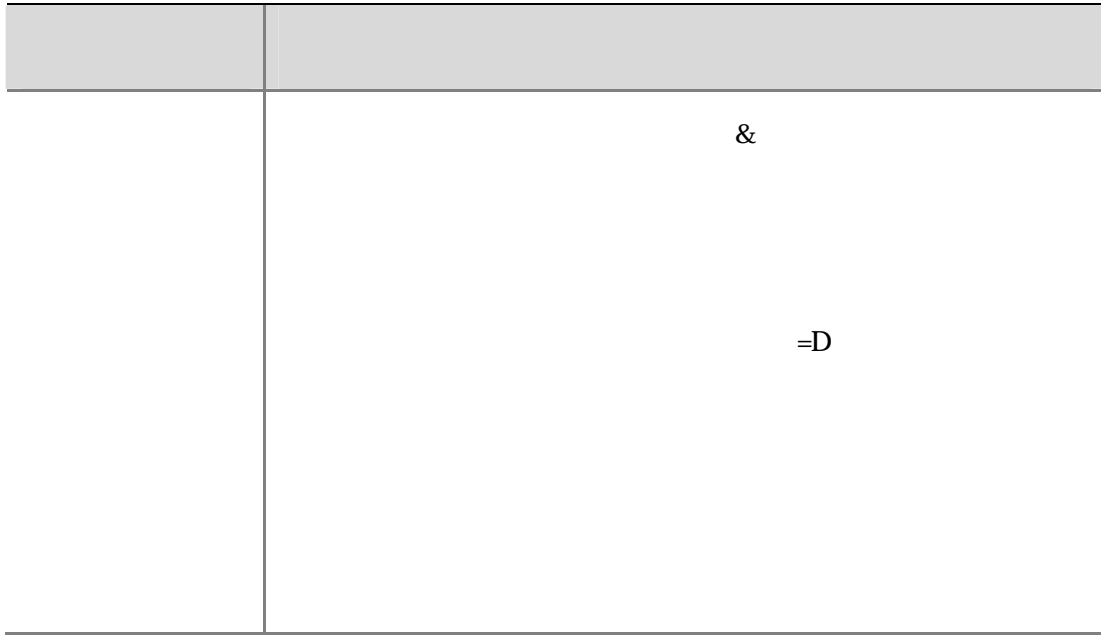
4.1.2

> (!%



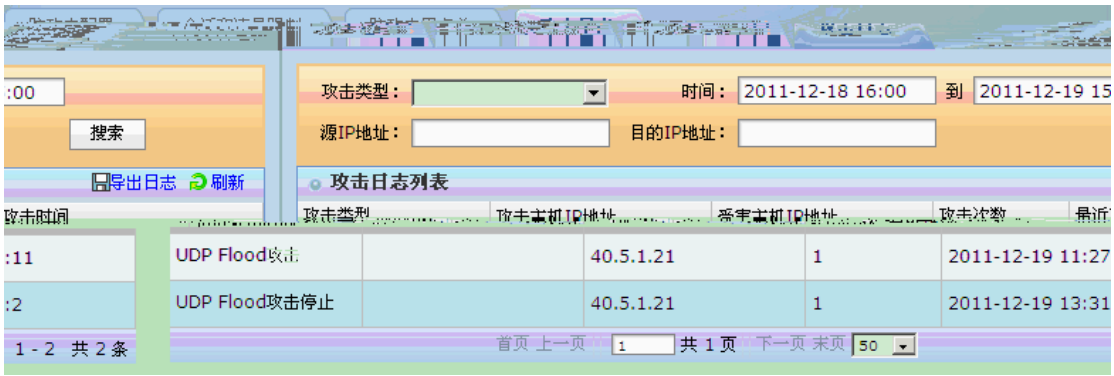
(!%

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4.1.3

(!%



(!'

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

Z ck Z ccX

]d]d

iXl Z ccX

]WdZ ccX

4.3.2

>

(!(

防攻击配置			
会话和流量限制		防攻击黑名单	攻击日志
会话和流量限制列表 +添加 ×删除			
主机范围	例外主机	规则	操作
<input type="checkbox"/> 192.168.3.0/255.255.255.0	192.168.3.25/255.255.255.255	每IP带宽限制：流入(in):1000000 流出(out):1000000	修改 删除
<input type="checkbox"/> 7.0.0.0/255.0.0.0 119.75.218.77/255.255.255.255 224.0.0.0/255.0.0.0 172.2.1.0/255.255.255.0 172.1.0.0/255.255.0.0 119.75.217.56/255.255.255.255 6.6.6.66/255.255.255.255	7.2.3.11/255.255.255.255	每IP带宽限制：流入(in):10000000 流出(out):10000000 每IP会话建立速率限制：流入(in):100000 流出(out):100000 每IP会话总数限制：流入(in):1000000 流出(out):1000000	修改 删除

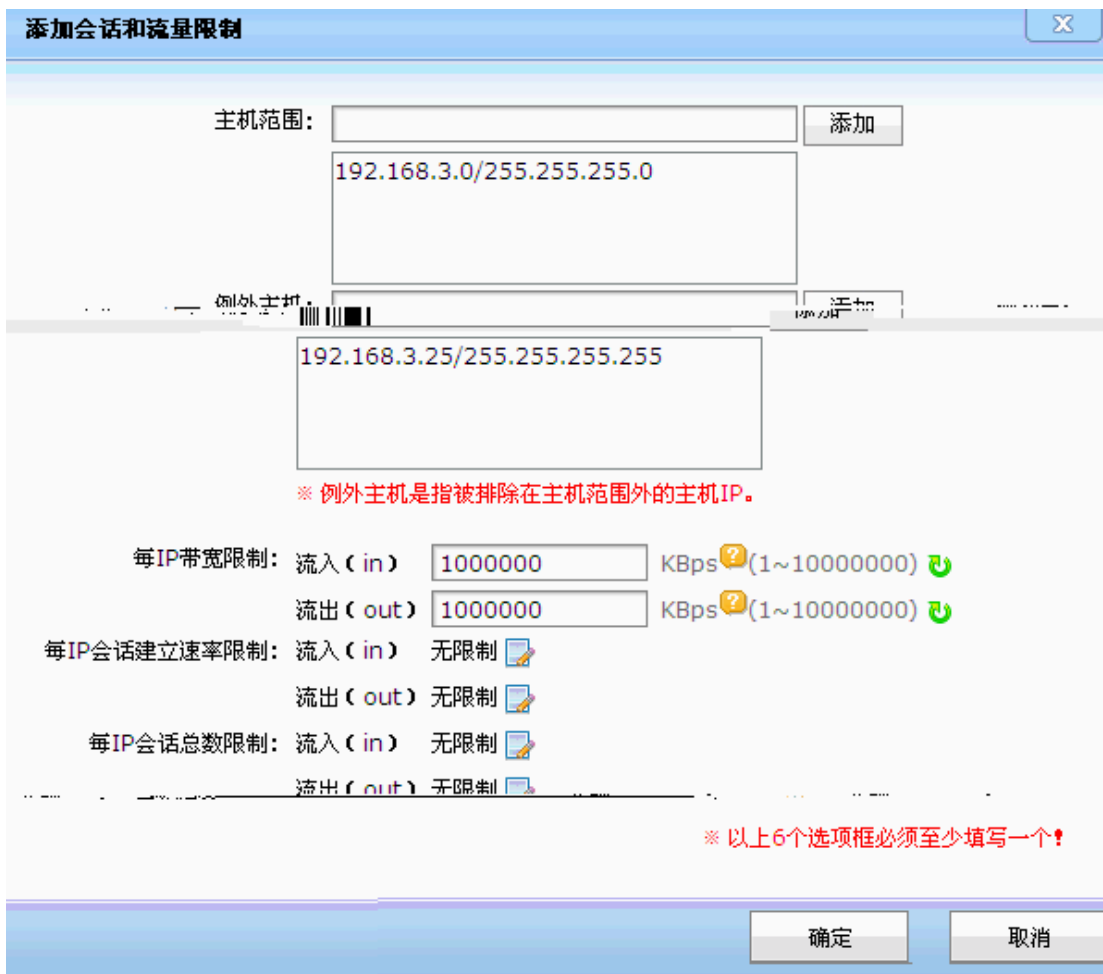
(!(

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4.3.3

(!(

(!



(!)

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	Ubm Ubm		
			=D
	=D Ubm Ubm		
	% &'%, "' " &	% &'%, "' " \$	
		(!) ž	
	% &'%, "' " \$	% &'%, "' " &	
=D		=D	=D
	% %SSSS_6dgŁ		



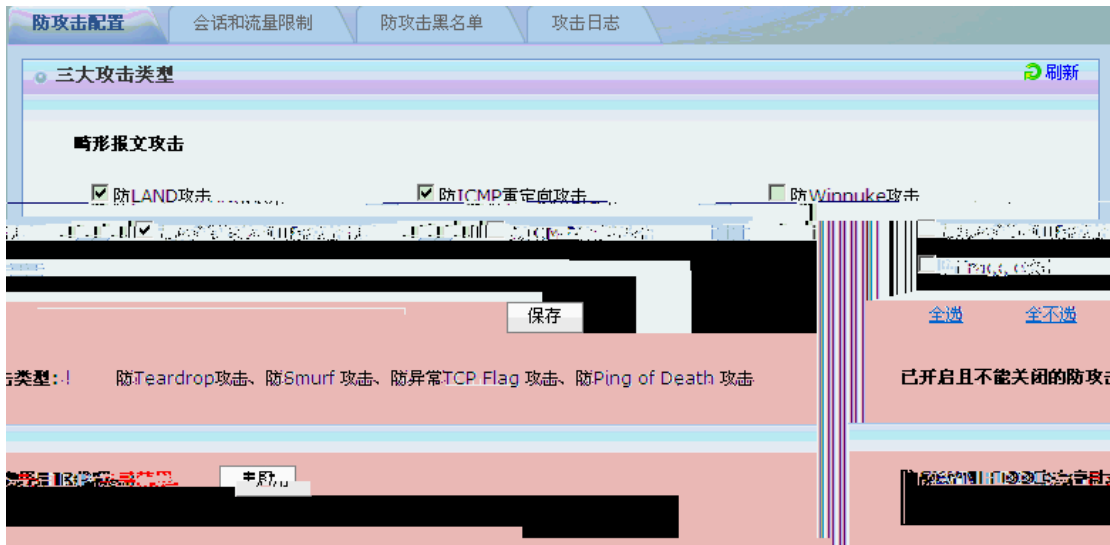
@bX	<p>@bX H7DGMB</p> <p>=D</p> <p>GMB! 57? 57?</p> <p>@bX IB=L</p> <p>K] bXckg BH</p>
Gai fZ	<p>Gai fZ =7AD</p> <p>=7AD</p> <p>Gai fZ</p> <p>=7AD</p> <p>Gai fZ</p> <p>: fU[`Y</p>
K] bbi_Y	<p>K] bBi_Y K] bXckg</p> <p>BYh6=CG %- CC6 ci h! cZI VbX</p> <p>BYh6=CG</p>
GMB : `ccX	<p>H7D#=D H7D</p> <p>GMB: `ccX GMB</p> <p>GMB! 57?</p> <p>57?</p> <p>GMB : `ccX</p>
=7AD : `ccX : `ccX	<p>=7AD d] b[I 8D</p>

D] b[cZ 8YU\	D] b[cZ 8YU\ =7AD =D % *)') =7AD *) \$+ =7AD =D f&S\ =7AD , > *)')

4.4.2

>

(!*



(!*

HUFXcd

Gai fZ

H7D: `U

D] b[cZ 8YU\

4.4.3

>

(!+



(!+





TCP UDP ICMP

TCP

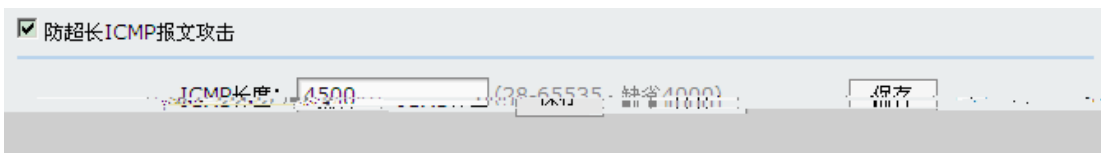
UDP

(!, =D :@CC8

=D :@CC8	. =D :@CC8 =D :@CC8
	ddg
	=D :@CC8

4.4.4.2 ICMP

(!-



(!- =7AD

=7AD	. =7AD =7AD
=7AD	=7AD (SSS VnmYg VnmY =7AD

4.4.4.3 SYN FLOOD

(!%\$

防SYN Flood攻击 [返回顶部](#)

+增加受保护IP +引用ACL ×删除

<input type="checkbox"/> 受保护主机IP ACL名称	速率阈值 pps(每秒包数)	操作
<input type="checkbox"/> audp	12	修改 删除
<input type="checkbox"/> 12.2.1.0/255.255.255.0	12	修改 删除
<input type="checkbox"/> 1	1000	修改 删除
<input type="checkbox"/> z2	11	修改 删除

记录日志

(!%\$ GMB : @CC8

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

KV GMB : `ccX % =D & 57@

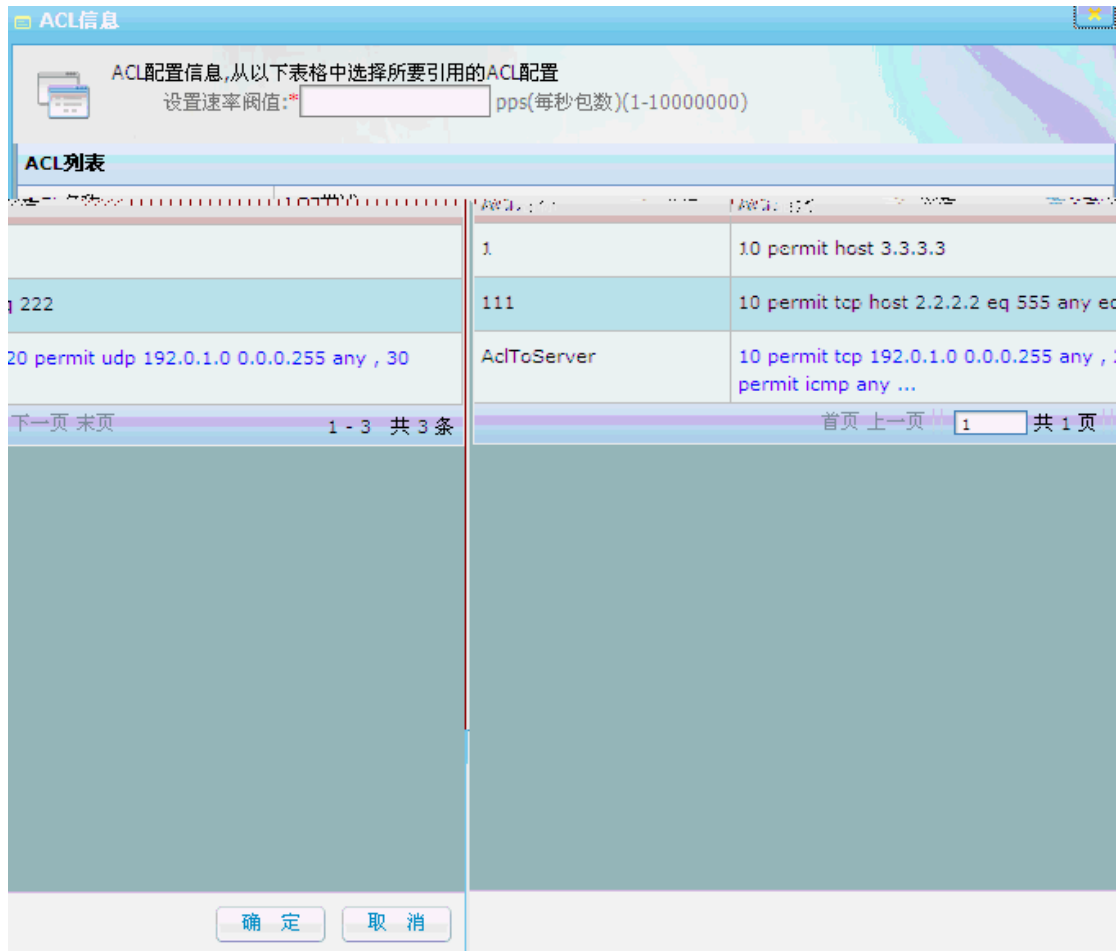
=D

%L =D GMB (!%\$

添加SYN报文限速 ✕

* 受保护主机IP范围:

* 速率阈值: pps(每秒包数)(1-10000000)



4.4.4.4 UDP FLOOD

(!%&



(!%& I8D:@C8

I8D: @008	I8D: @008 I8D: @008
=D	I8D: @008 =D 57@ 57@ 57@ 57@ 57@
	I8D: @008 I8D: @008
	I8D: @008

I8D: `ccX % =D /&L 57@

% I8D: @008 (!%



(!% I8D: @008

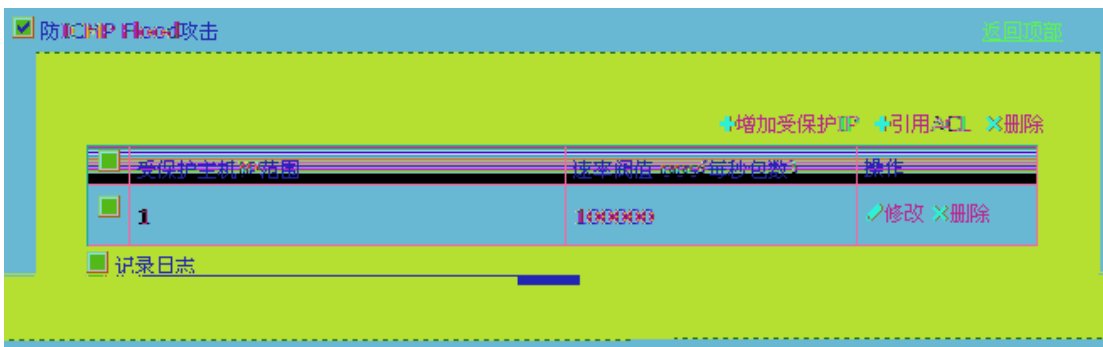
--	--

=D	I 8D : @CC8 =D
	I 8D : @CC8

& 57@ ("(")"

4.4.4.5 ICMP FLOOD

(!%



(!% =7AD : @CC8

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

	=7AD: @CC8

=7AD: `ccX %

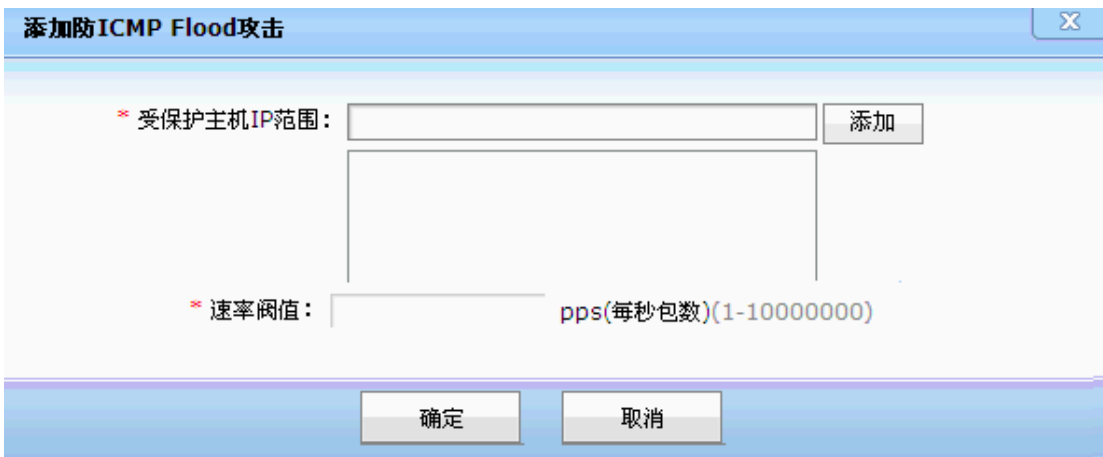
=D/ &L

57@

%L

=7AD: @CC8

(!%)



(!% =7AD: @CC8

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

&

57@

("(")"")

5.1

%		=D
&		XYZU`h XYZU`h XYZU`h XYZU`h
,		

5.2

>

)!%

安全域 安全域访问策略 非法访问日志 非法访问黑名单

当前安全域创建方式: IP [改变安全域创建方式](#)

安全域名称: 等级:

安全域列表 +添加

安全域名称	主机范围	例外主机	等级	非法访问告警	非法访问阻断	操作
ip_10001	113.108.20.48/255.255.255.255	any	12	不告警	不阻断	修改 删除
ip_2	any	7.1.0.0/255.255.0.0		告警阈值:100次	阻断阈值:100	修改 删除
f	修改 删除	smp_1001	59.192.0.1/255.255.255.255 59.56.172.3/255.255.255.2 10.0.0.0/255.0.0.0	告警阈值:100次 告警方式:日志告警 违例记录老化时间:1天	不阻断	
f		默认安全域	未划入其他安全域的IP	0	不告警	不阻断

1 - 4 共 4 条 首页 上一页 1 共 1 页 下一页 末页 50

记录非法访问日志

)!%

)!&

请选择安全域的创建方式



源IP地址



接口

)!&

=D	=D



5.3 IP

5.3.1

=D

=D

)!'

当前安全域创建方式: IP [改变安全域创建方式](#)

安全域名称: 等级:

安全域列表 +添加

操作	安全域名称	IP地址/网段	等级	告警方式	阻断方式	其他配置
删除	smp_10001	113.108.20.48/255.255.255.0	any	不告警	不阻断	
删除	smp_2	any	7.1.0.0/255.255.0.0 113.108.20.48/255.255.255.0 59.192.0.1/255.255.255.0	告警阈值:100次 告警方式:日志和 Trap告警	阻断阈值:100 禁止访问所有安全域 禁止访问时间:1分钟	
	any			告警阈值:100次 告警方式:日志和 Trap告警	不阻断	修改 删除 smp_1001 59.192.0.1/255.255.255.255 59.56.172.3/255.255.255.0

1-4 共4条 首页 上一页 1 共1页 下一页 末页 1/50

记录非法访问日志

)!'

=D

	=D
	=D

	hfUd hfUd %
	% &

5.3.2

)!'

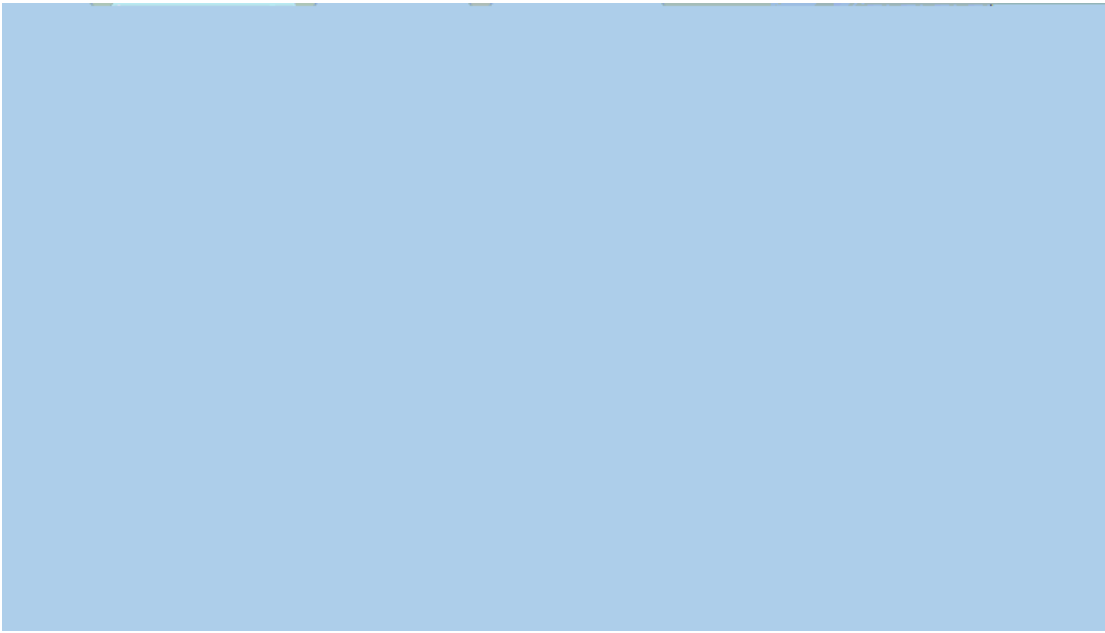
)!('



5.3.3

%

>
)!*



)!*

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

&L

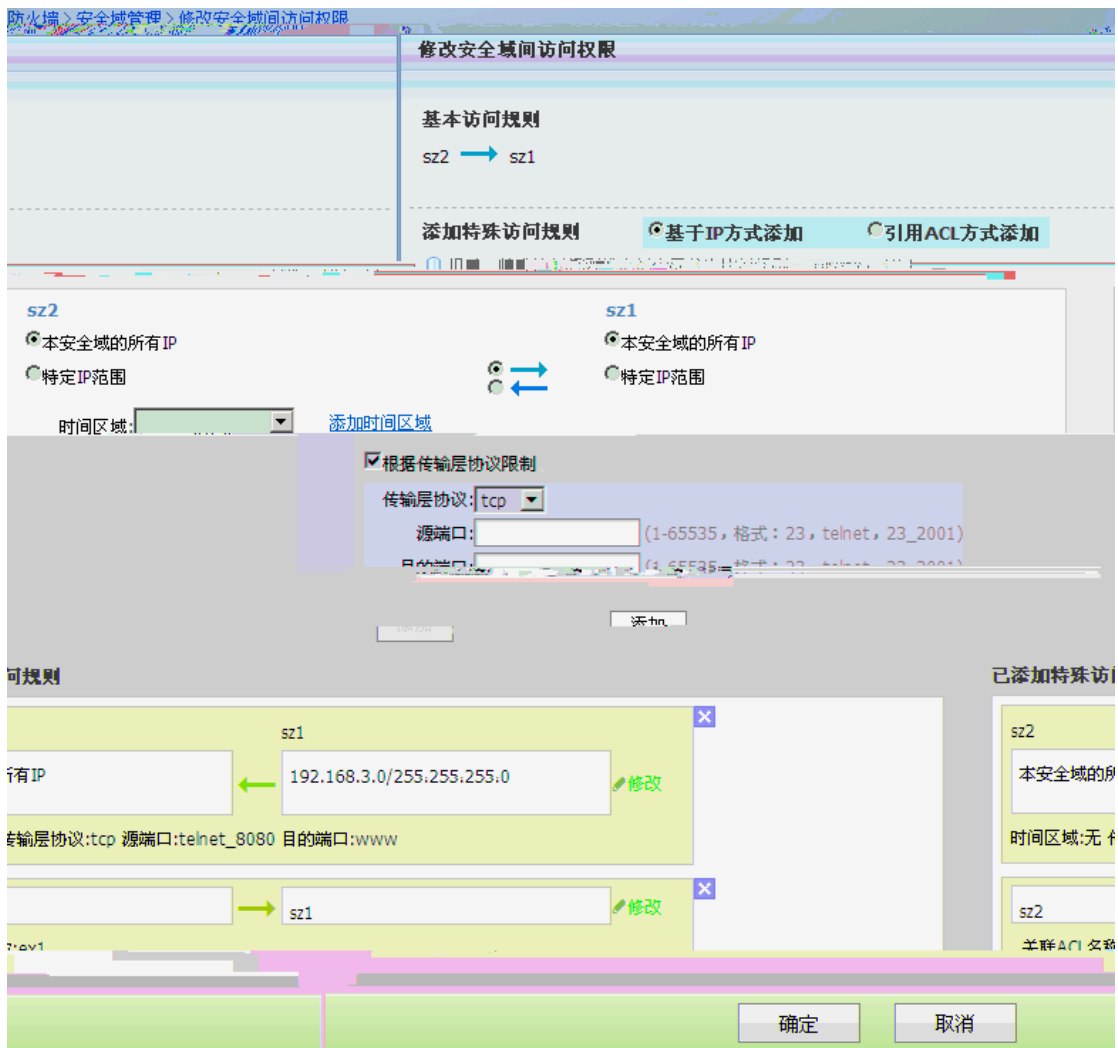
)!*

允许同一安全域内互访 允许同等级安全域间互访

)!*

允许同一安全域内互访 允许同等级安全域间互访

)!*
)!+



)!+

&

=D

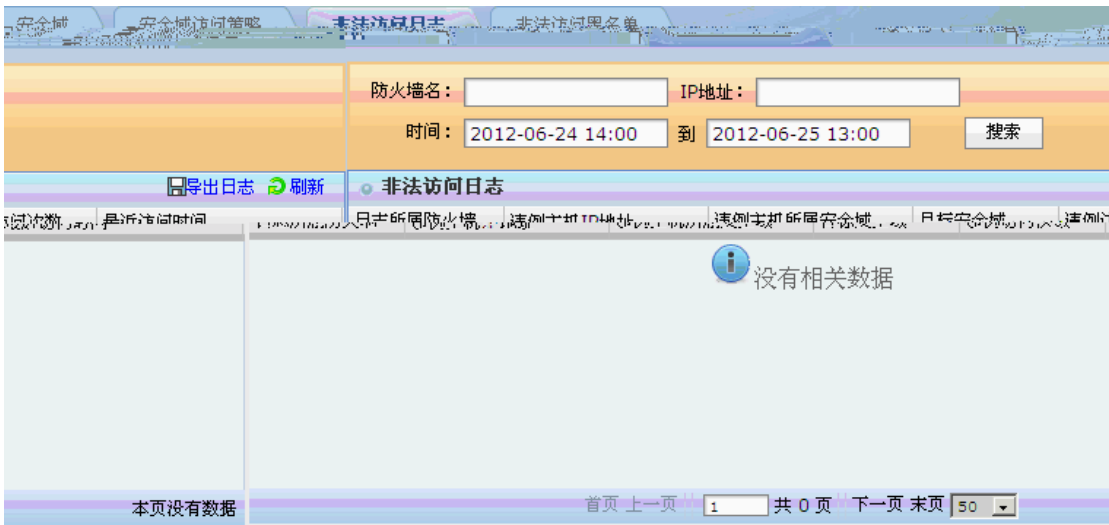
=D

57@

57@

57@





)!

=D	=D

>
)!-



)!-

=D	=D

5.4

5.4.1

)!%\$

安全域

基本配置

* 安全域名称: (字母,数字,下划线,最长不超过16个字符)

* 接口范围:

所有接口

Vlan 2
Vlan 3
Vlan 4
Vlan 5
Vlan 6
BVI 12

已选接口

* 安全域等级: (1到100, 数值越高, 优先级越高)

)!%%

	16

5.4.3

IP

5.2.2.3

[IP](#)

%L

)" & &'



&L

)" & &'



57@ 5Wgg 7cbfc` @gh

57@

f5Wgg 7cbfc` 9bfm 579L

6.1

ACL

%	57@	57@ 57@
&	579	ACL ACE ACE

6.2 ACL

> 57@

57@

*!%



6 1 ACL

ACL

ACL

ACL

ACE

ACL

ACE

ACL

ACE

57@	579 dYfa]h Xbm
=D	579 =D =D =D =D
=D	579 57@

=D	579	57@ =D
=D	579	57@ =D
	579	579

ACE

ACE

579

579

579

6.3 ACL

ACL

[6.1](#)

ACL

ACL

6.2

添加ACL

提示：

- 支持字符命名：包括字母，数字和下划线，但不能以数字作为名称的开头。
- 支持数字编号命名：标准ACL：1-99，1300-1999；扩展ACL：100-199，2000-2699。

*ACL名称：

标准ACL
 扩展ACL

6.2 ACL

57@	<p>57@</p> <p>57@ %\$!% - &\$\$\$! &* --</p> <p>57@ %\$!% -- % \$\$! %--</p>
57@	<p>57@ IP 1 - 99 1300</p> <p>- 1999 IP</p> <p>57@ IP 100 - 199</p> <p>2000 - 2699</p>
	<p>57@</p> <p>in ACL</p> <p>ACL ACE</p> <p>out ACL</p> <p>ACL ACE</p>

KV =D =D =D

A57 A57 9 d f h

7@

6.4 ACE ACL

ACL ACE 2

ACL ACE ACL IP

ACL ACE ACL IP IP

ACE

1. ACE

2. " "



"

"

%L 57@ 579

ACL ACE 61 ACE ACL ACE ACE



63 ACE



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

&L

57@

579

ACL

ACE

6 1

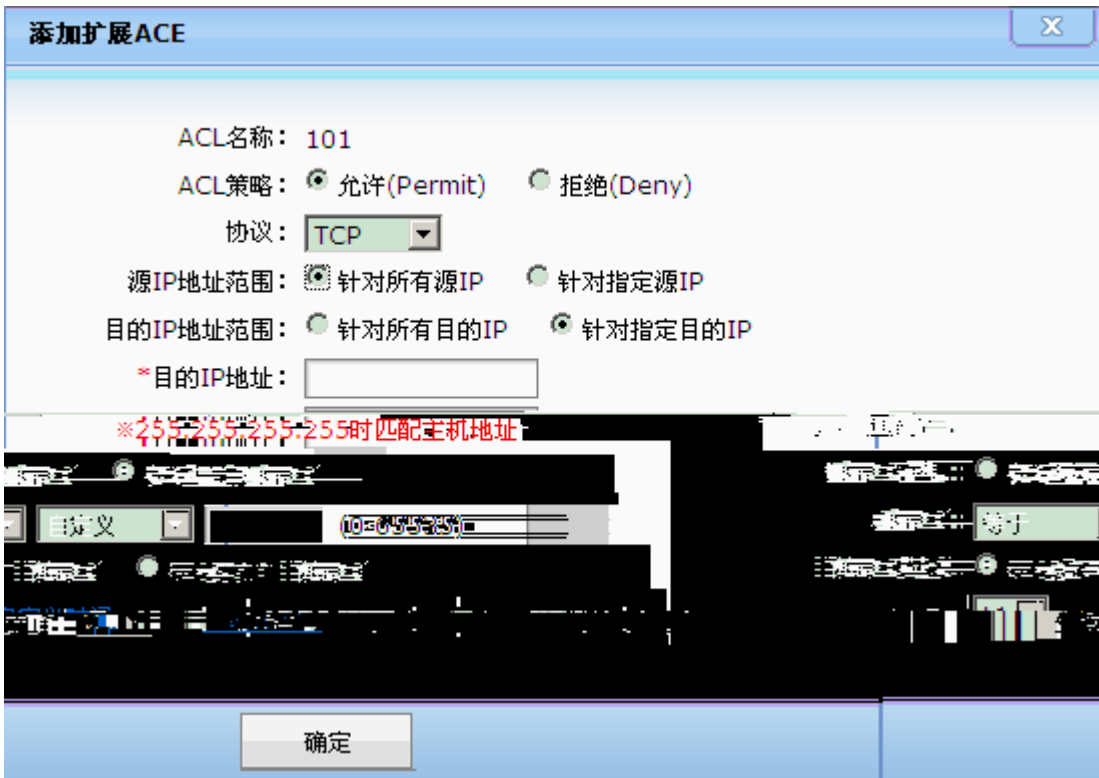
6 4

ACE

ACL

ACE

ACE



64 ACE



579

57@

Dfajh

8Ybm

B5H BMkcf_ 5XX Ygg H Ubg` Uh] cb =D =D =D
 =D =D B5H =D

7.1

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

NAT

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

7.2 NAT

> B5H =D B5H +! %



+!% B5H

NAT

NAT

NAT

7 2



7 2 NAT

	B5H

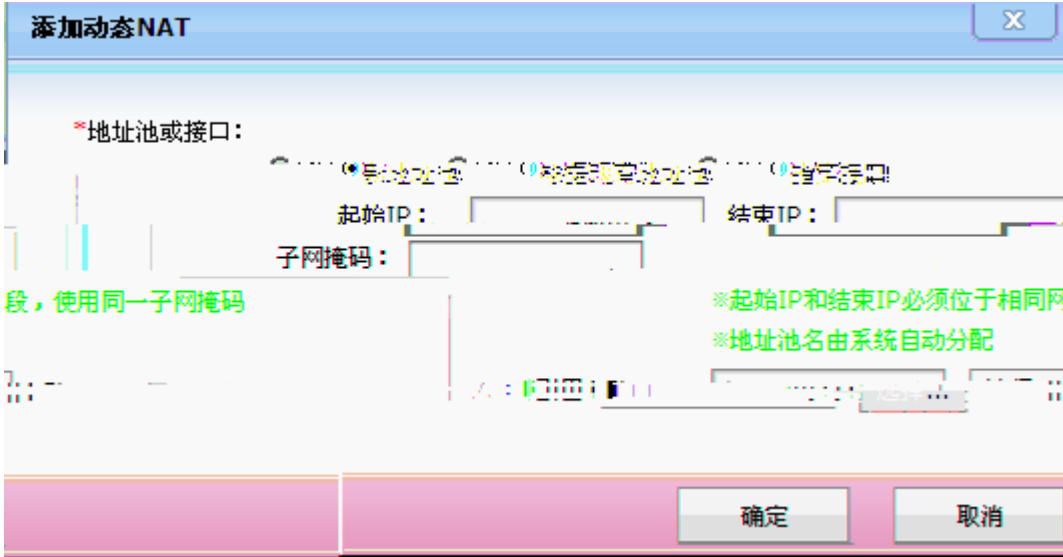
7.3 IP

NAT

7.1

IP

7.2



+!&

=D

		=D fl
	B5H L	
	&	
	% !!!!	
	&	!!!!
57@	ACL	ACL

7.4

IP

NAPT

=D

> B5H
+!'

8AN

B5H

内网、外网IP地址转换(动态NAT) DMZ服务器配置(静态NAT)

+添加 ×删除 业务系统IP地址转换

没有相关数据

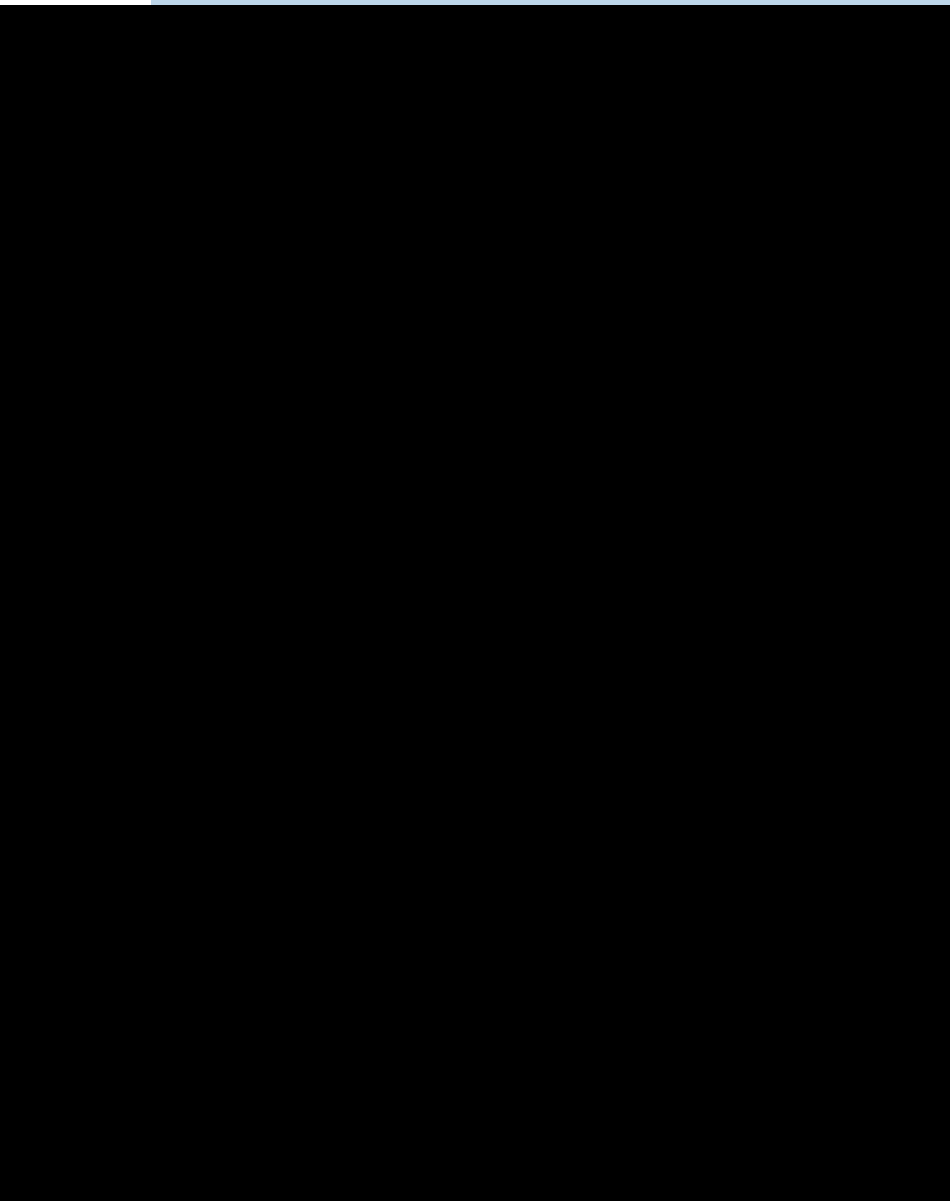
IP地址转换配置显示区域 业务系统

服务器IP地址转换 针对2种内网服务器,分
第1种:为独立内网服务器,配置一个静态的
第2种:为多台内网服务器,配置一个静态的

服务器IP地址转换

内网服务器IP	允许主动访问外网	操作	类型	外网IP或接口
没有相关数据				

服务器IP地址转换配置显示区域



D

172.18.3.7'udp(2002)

6

172.18.3.7

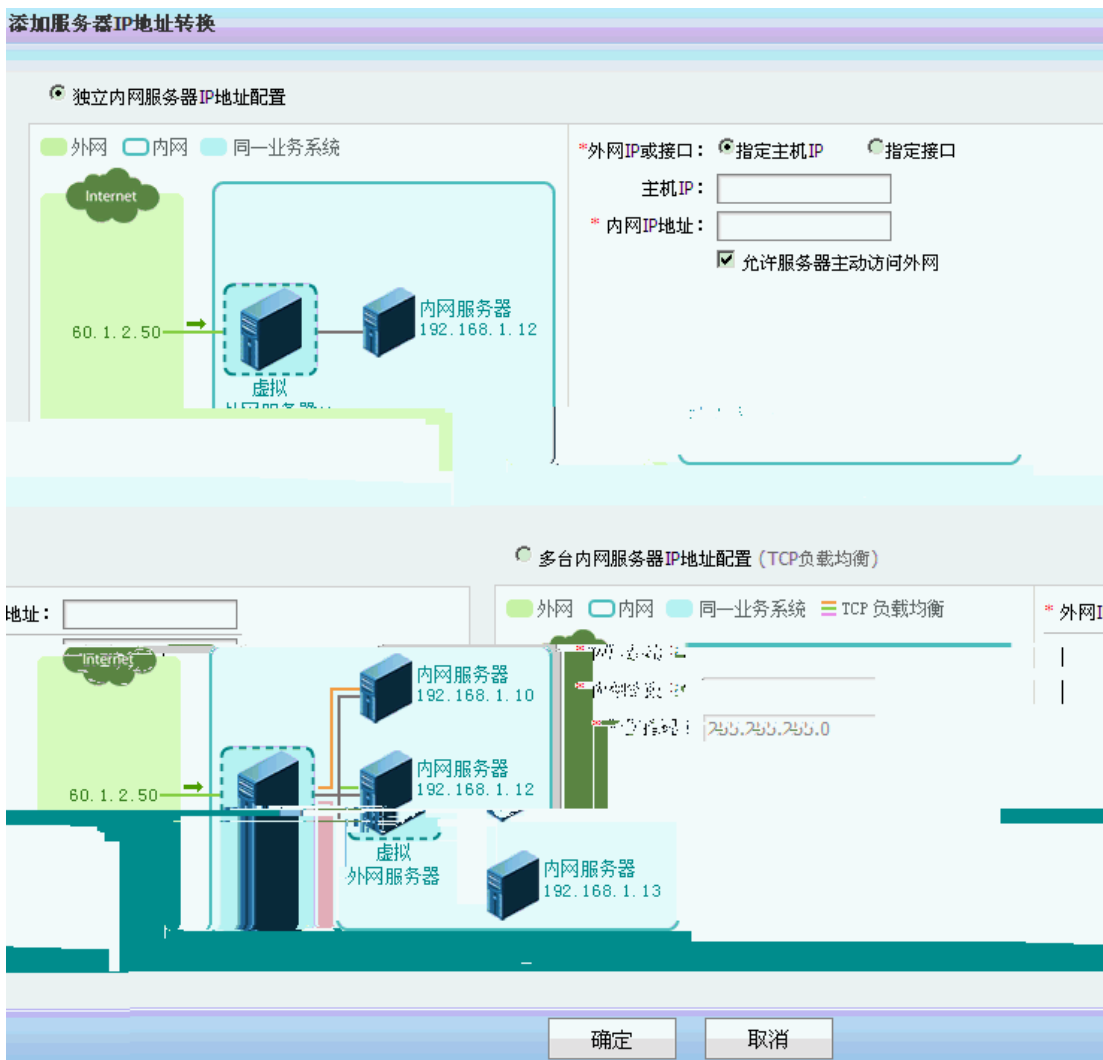
UDP

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

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

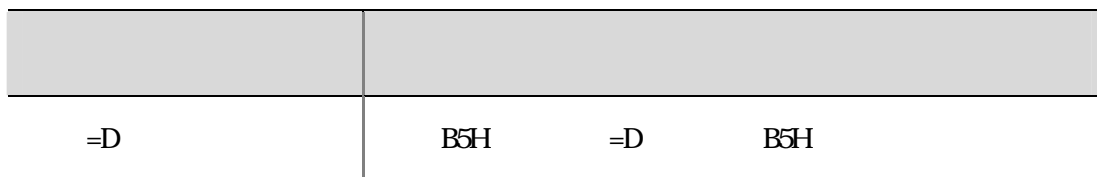
7.5 IP (1 1 1)

B5H +! =D =D
 +!)



+!) =D

=D % %

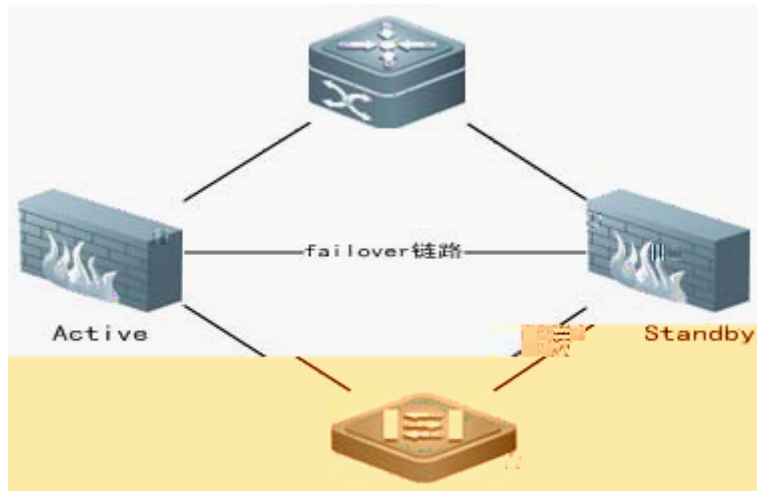


=D B5H

=D	B5H =D
=D	B5H
=D	B5H

5MljY

GhUbXVm



, !%

ZU`cj Yf

: U`cj Yf

8.1

HA

> <5

<5

, !%

HA(高可靠性)管理

基本状态

热备状态: **未建立**
工作模式: **热备互备**

双机热备部署示意图

备用防火墙 主用防火墙

心跳线
以太网线路

刷新 自动刷新时间: 30秒(默认)

设备配置 >>

, !% <5

	5G GhUbXVm 55
	5G 55
	5G 55
K96	ghUbXVm

<5

>>

>>

,!&

基本状态信息心跳报文信息状态机信息备份状态信息

```
show failover info:
failover off
Failover create time: NA
Last switch: NA
This host:
  Secondary – Failover disabled
Other host:
  Primary – unknown
```

返回

,!&

8.2 HA

> <5

<5

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, !' <5

<5

%		
&	#	

添加虚拟防火墙

基本信息

* 虚拟防火墙名称: (1-15字符)

* 配置文件名称: .text (1-13字符)

选择接口

所有接口

- Vlan 1
- Vlan 2
- Vlan 91
- Vlan 99
- Vlan 100
- Vlan 999
- Vlan 1000
- Vlan 2000
- Vlan 3000
- Vlan 4000

已选接口

增加->

<- 移除

静态路由表

[+添加静态路由](#) [x删除路由](#)

目标地址IP	子网掩码	下一跳地址/本地转发接口	其他	操作
没有相关数据				

确定 取消

9 2

	%%

interface VLAN

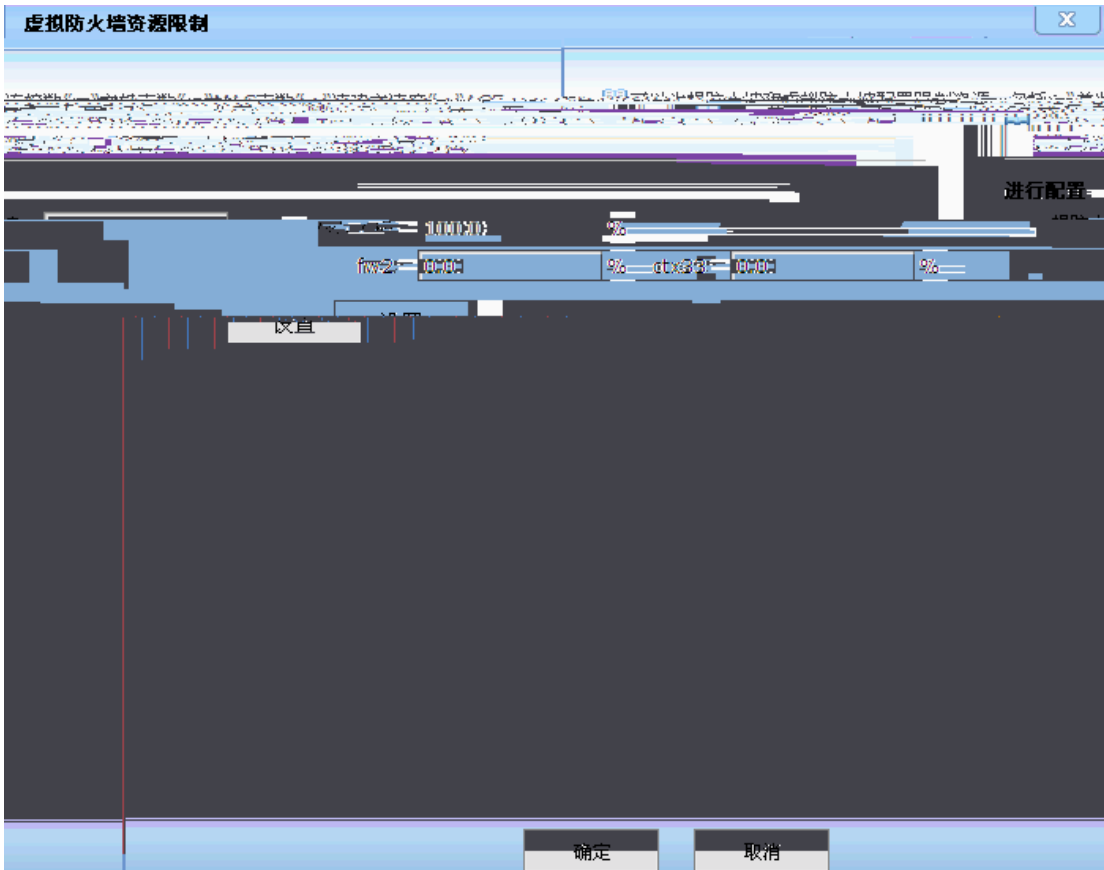
interface VLAN

IP

9.3

[91](#)

93



93

Web
30%

MAC

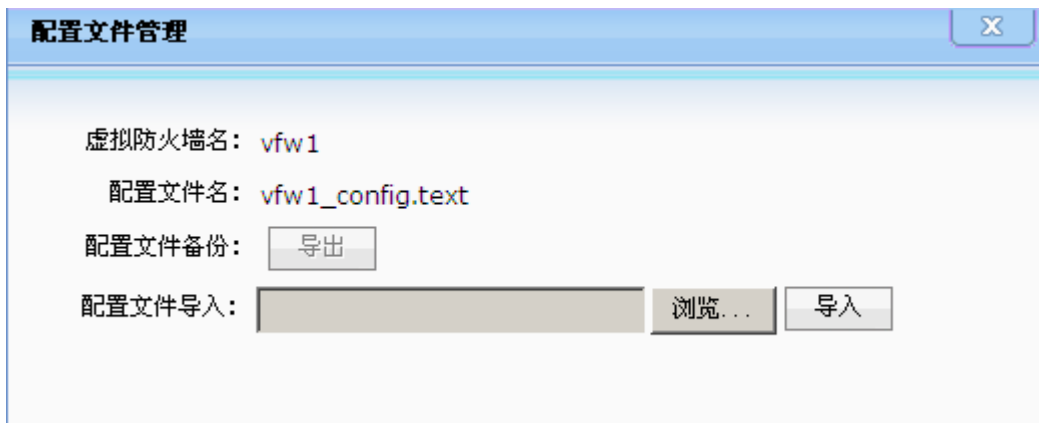
30%

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[91](#)

94



10.1

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	=D
#	=D



添加静态路由 X

* 目标地址IP:

* 子网掩码:

* 下一跳地址: 下一跳地址

本地转发接口

高级配置

管理距离(DISTANCE): 1-255

权重(WEIGHT): 1-8

%! &

=D	=D =D S' S' S' S
	=D S' S' S' S

	=D
	=D
#	
	DDD =D DDD
	DD =D
	BGA5 D&AD =D =D
	J]fhiU!Hrad UhY J@5B
	\$f]d %SS

	<p style="text-align: right;">% kY] [\h K7AD</p> <p style="text-align: right;">kY] [\h</p> <p style="text-align: right;">K7AD ,</p> <p style="text-align: right;">K7AD</p> <p style="text-align: right;">K7AD ,</p> <p>:]fYkU `fWbZ] [L#] d fci hY %\$ " \$ " \$ \$ &) " \$ " \$ " \$ % + & " \$ " % & kY] [\h *</p> <p>:]fYkU `fWbZ] [L#] d fci hY %\$ " \$ " \$ " \$ &) " \$ " \$ " \$ % + & " \$ " % (kY] [\h *</p>

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11.2

[10.3](#)

10.4

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11.3

10.3

10.5

基本信息

* 路由图(route-map): (字母,数字,下划线,最长不超过16个字符)

添加匹配策略路由

* 策略优先级: 0到65535, 数值越低, 优先级越高

* 匹配IP地址: 所选 除了所选以外

* IP地址范围:

* 下一跳地址:

已添加匹配策略路由

策略优先级	匹配IP地址	下一跳地址	操作
12	<input checked="" type="radio"/> 所选 192.168.201.66/255.255.255.255	192.168.203.3	修改 × 删除

10 5

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	\$ *)))'
=D	=D =D =D =D =D
=D	=D =D
	=D

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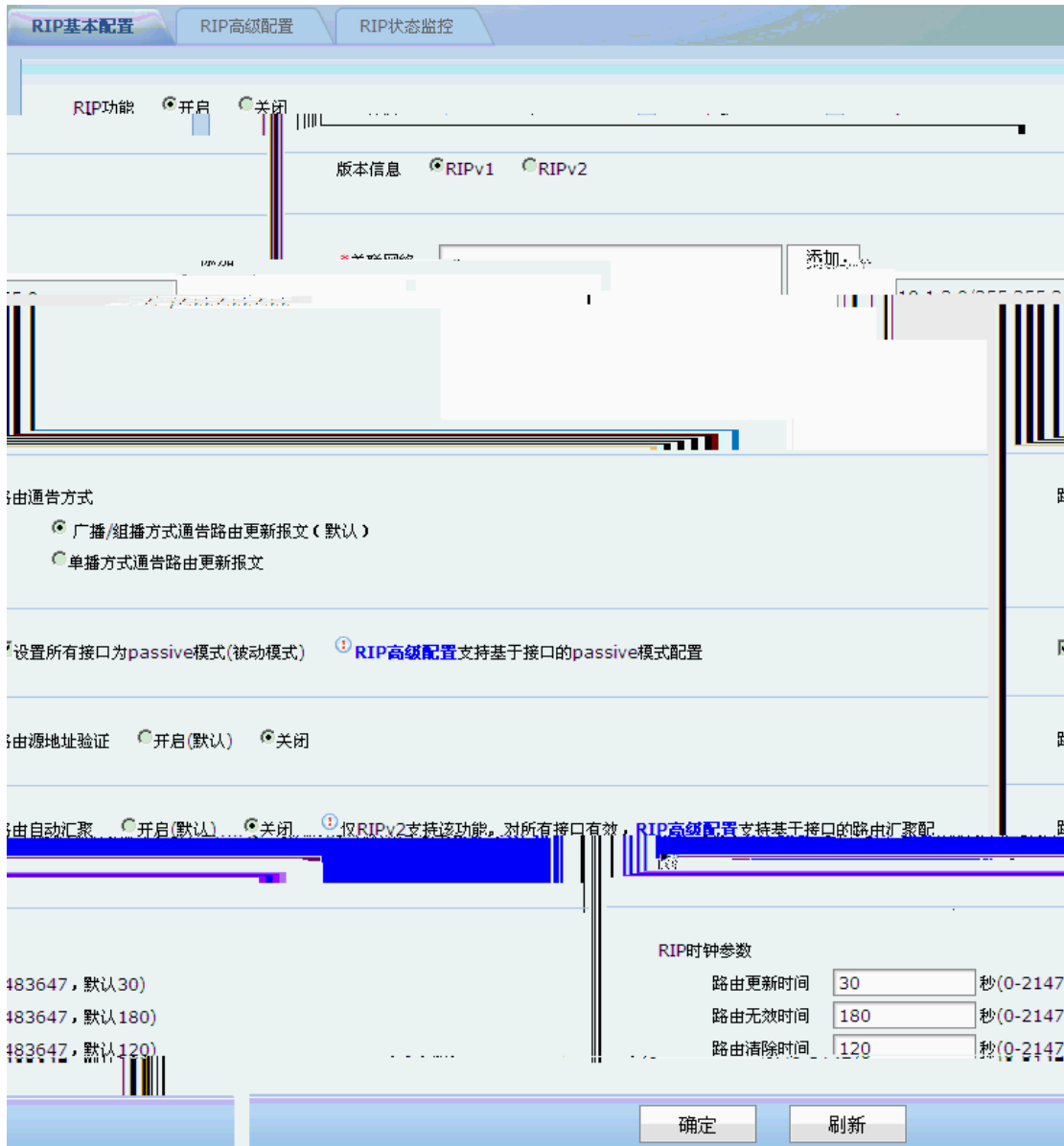
10 6



10 6

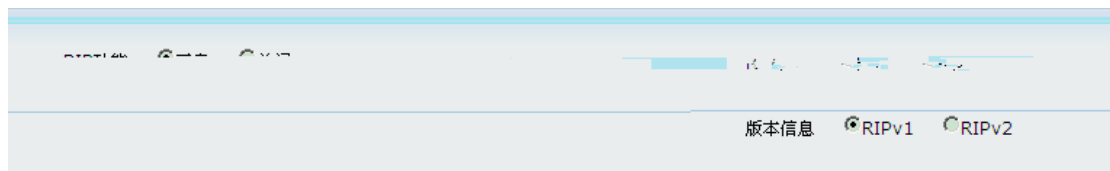


RIP (Routing Information Protocol)



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12.2.1



%% & % & F=D

12.2.2

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F=D

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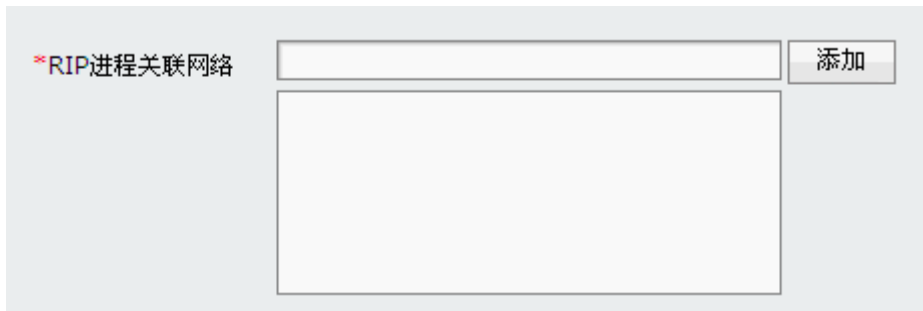
&

%

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

#

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



%% & % *

12.2.3

路由源地址验证 开启(默认) 关闭

%%&%%&

12.2.5

F]d

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路由通告方式

- 广播/组播方式通告路由更新报文(默认)
- 单播方式通告路由更新报文

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单播方式通告路由更新报文

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路由通告方式

- 广播/组播方式通告路由更新报文(默认)
- 单播方式通告路由更新报文

单播

添加

%%&%%&

12.3RIP

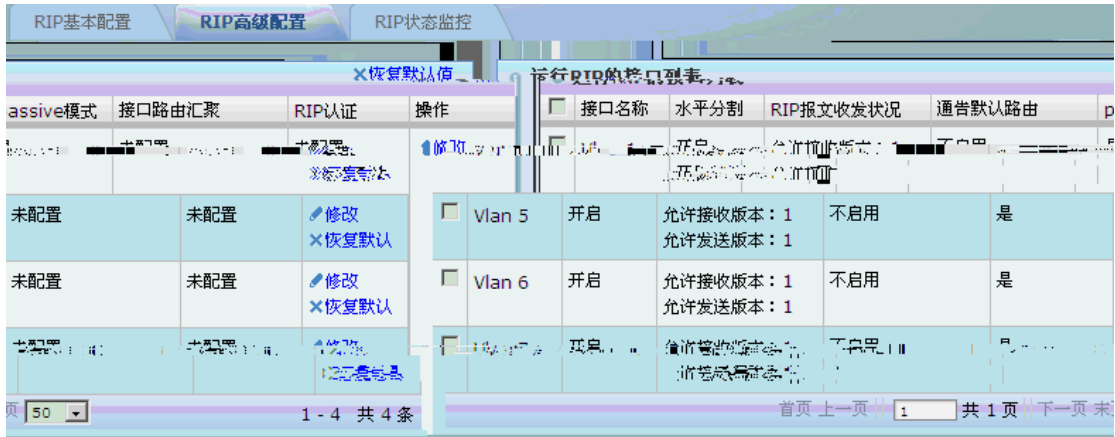
RIP

F=D

J@B

F=D

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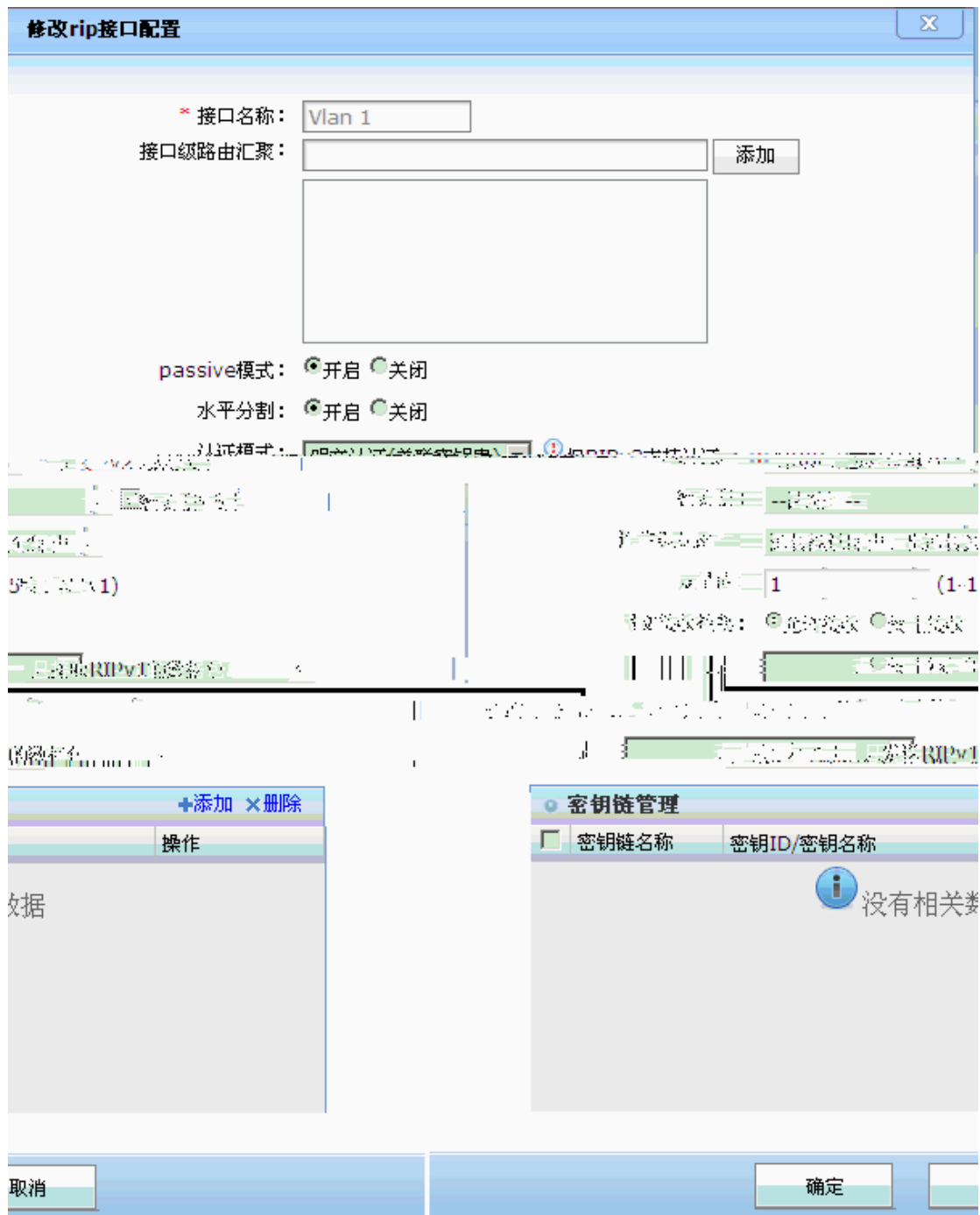


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F=D

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接口级路由汇聚: 添加

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接口级路由汇聚: 添加

172.18.0.0/255.255.192.0

%& & &)

接口级路由汇聚: 添加

172.18.0.0/255.255.192.0 ✘

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12.3.2

12.3.3

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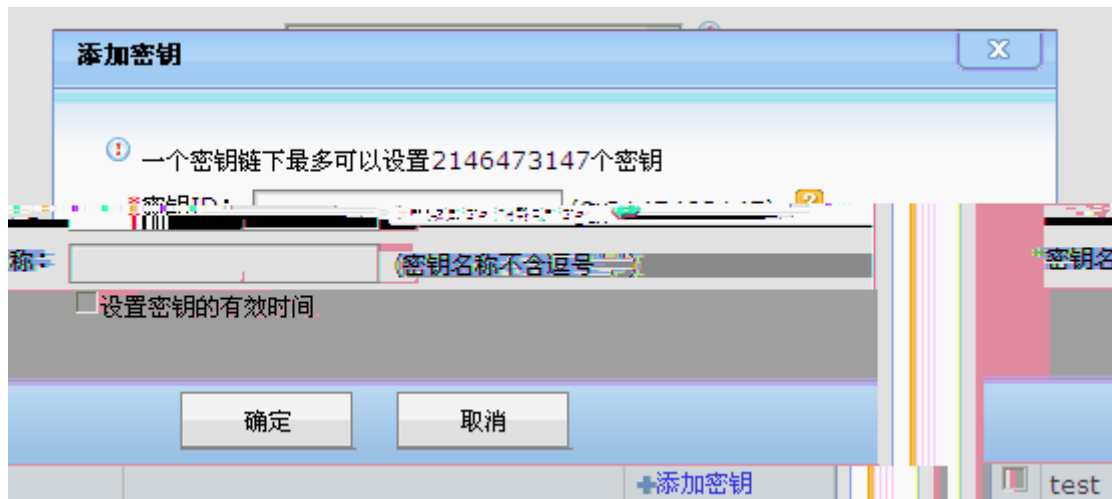
%& & %%

%& & %&

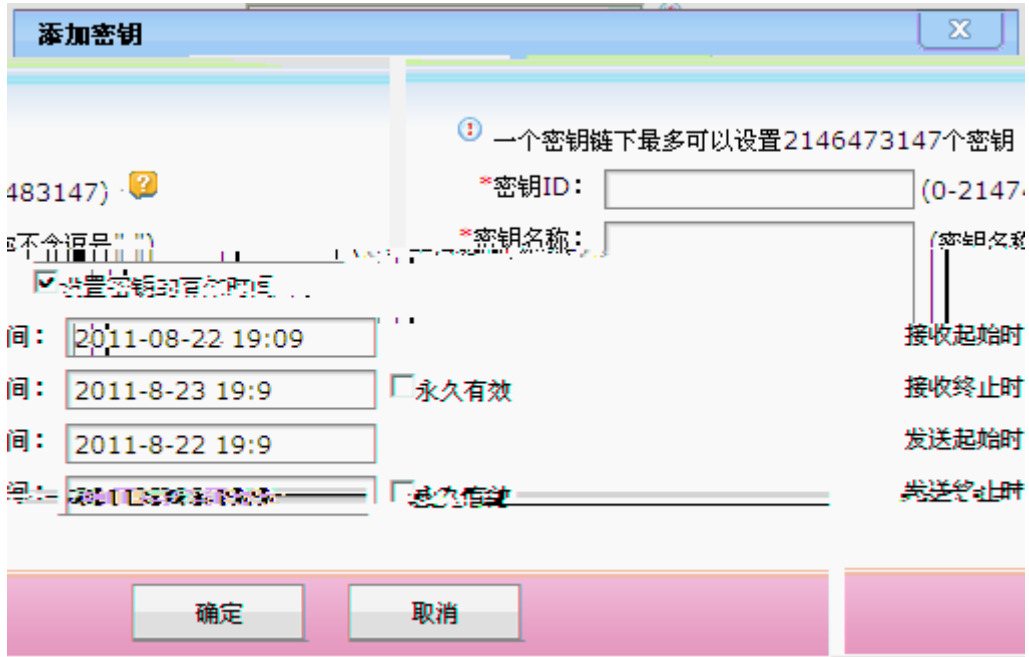
%%&&%

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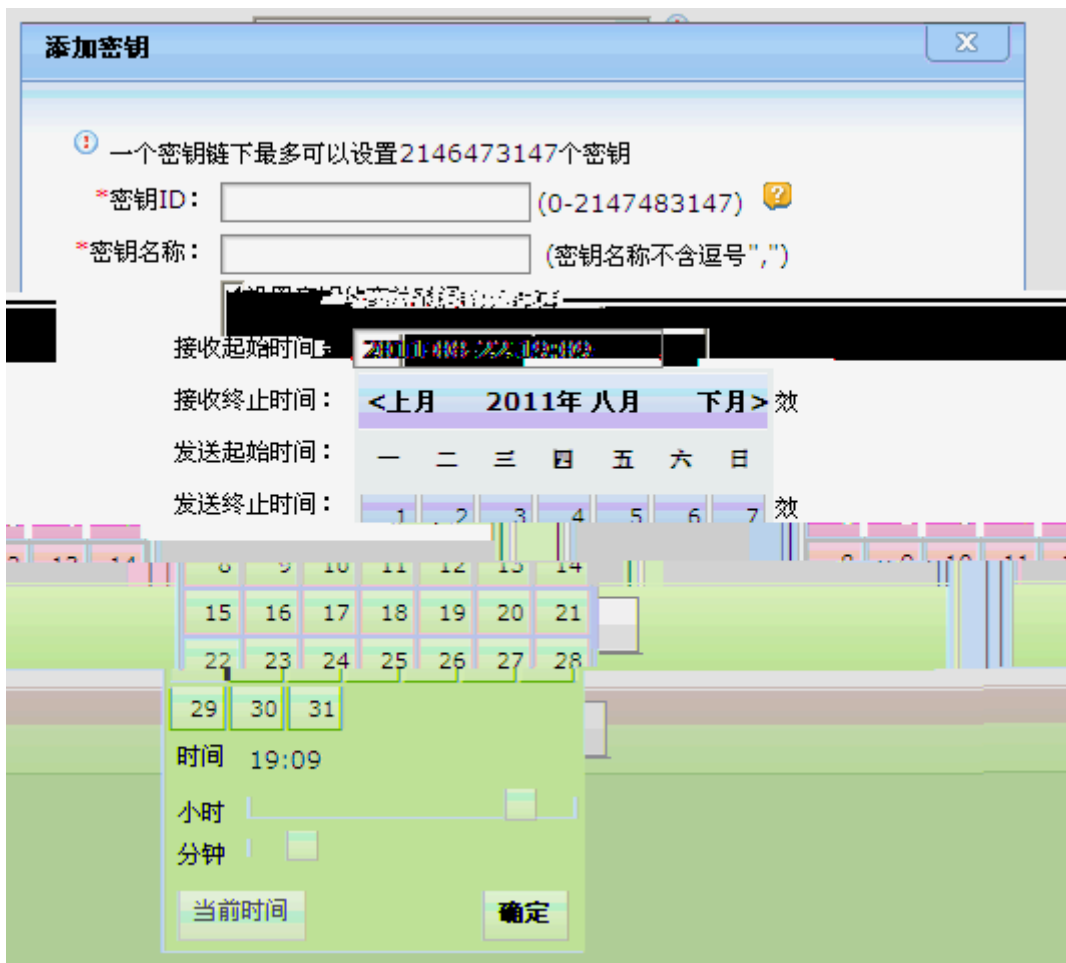
%%&&%



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V V W
V fVZ %-% %% & & &

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12.3.7

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12.3.8

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F=D

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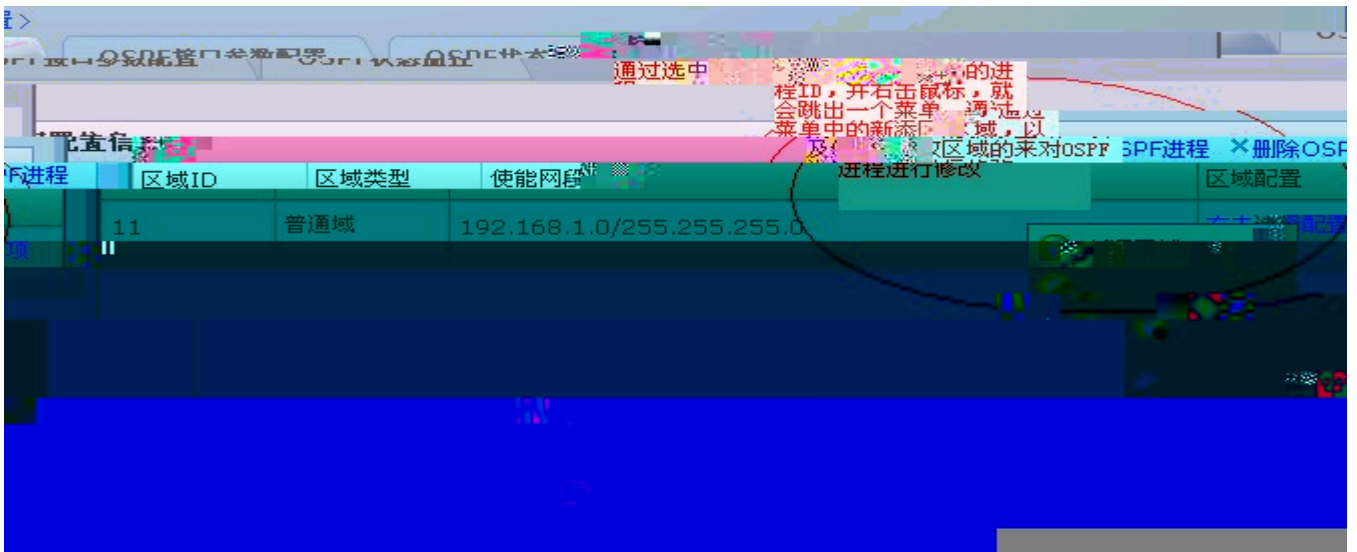
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OSPF Open





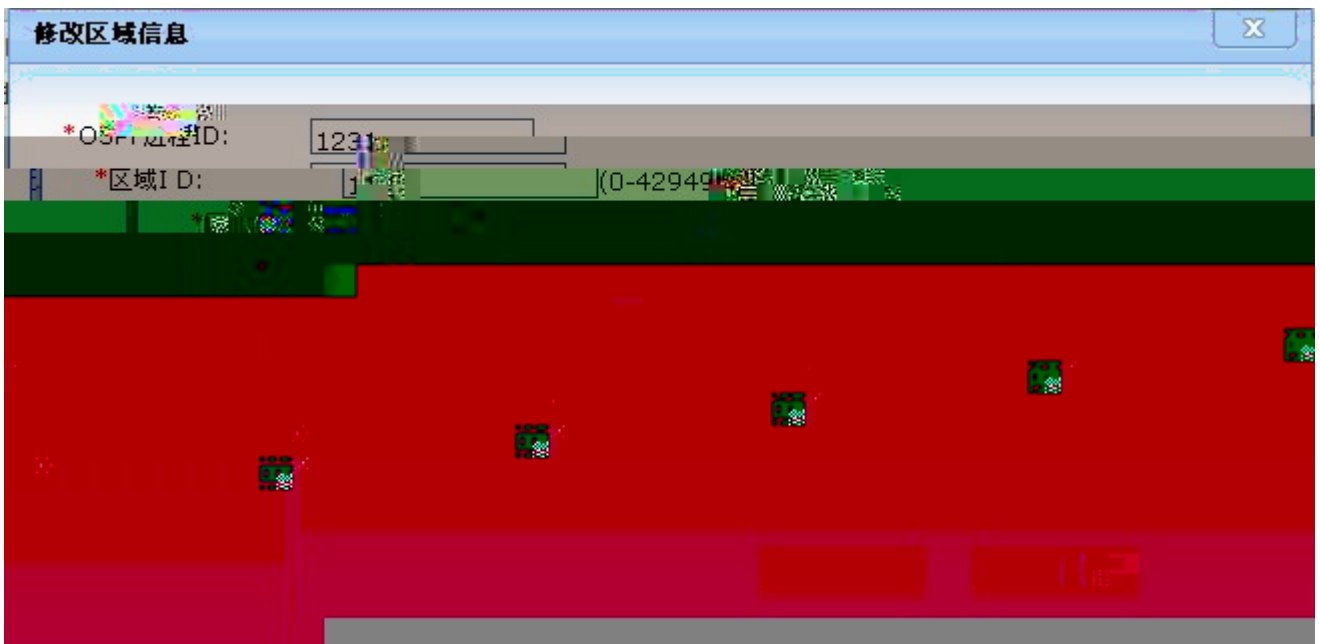
CCD

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CCD	=8	CCD
	=8	
		CCD

CCD

=8



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=8	CCD
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CCD

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OSPF

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13.2.2

13.2.2.1

no redistribution ASBR

ABR no-summary	Type-3 LSA	nssa summary LSAs	Type-3 LSA	(ABR)
--------------------------	------------	----------------------	------------	-------

13.2.2.3 STUB

OSPF

area id []

area id []

area-id	STUB
no-summary	ABR ABR

OSPF (LSA) 1 1 area stub LSA 2 2 ABR LSA 3 3
 LSA ABR area s OSPF

area default-cost

1

```

:JfYkU `(config)# router ospf 1
:JfYkU `(config-router)# network 172.16.0.0 0.0.255.255 area 0
:JfYkU `(config-router)# network 192.168.12.0 0.0.0.255 area 1
:JfYkU `(config-router)# area 1 stub
    
```

GD

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GH6 GD

!>

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GH6

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GH6



13.2.2.4

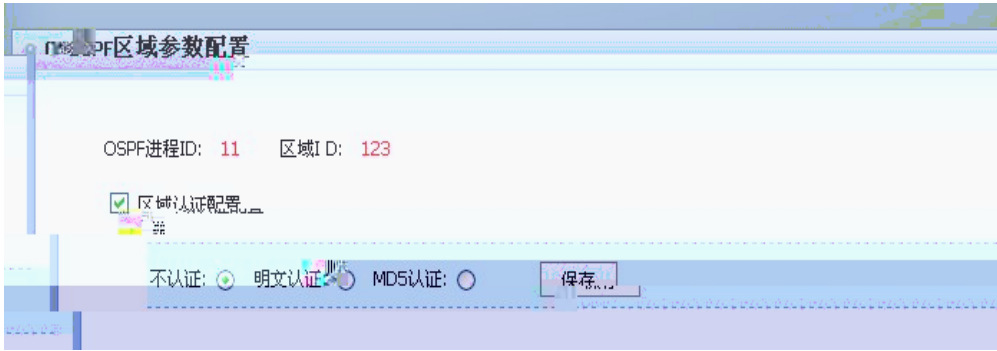
area-id	STUB ,

: no-summary	ABR ABR
------------------------	------------

OSPF

OSPF

OSPF 配置命令: `ospf 11 area 123 authentication-mode md5`



area-id	ID	,
Authentication[message-digest]	MD5	MD5

13.2.2.5

OSPF

ospf **area id** ip address net mask [] [cost]

ospf **area id** ip address net mask []

area-id	OSPF
ip-address net-mask	IP
advertise not-advertise	

cost cost

0-16777215

cost RFC1583

RFC1583
cost

ABR

advertise not-advertise

cost

OSPF

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

13.2.2.6

ABR

area filter list

'area id' ['acl name' | 'prefix name' [' ']]

'area id' ['acl name' | 'prefix name' [' ']]

area-id	
acl-name	acl
prefix-name	prefix-list
access prefix	prefix list ACL
in out	

ABR

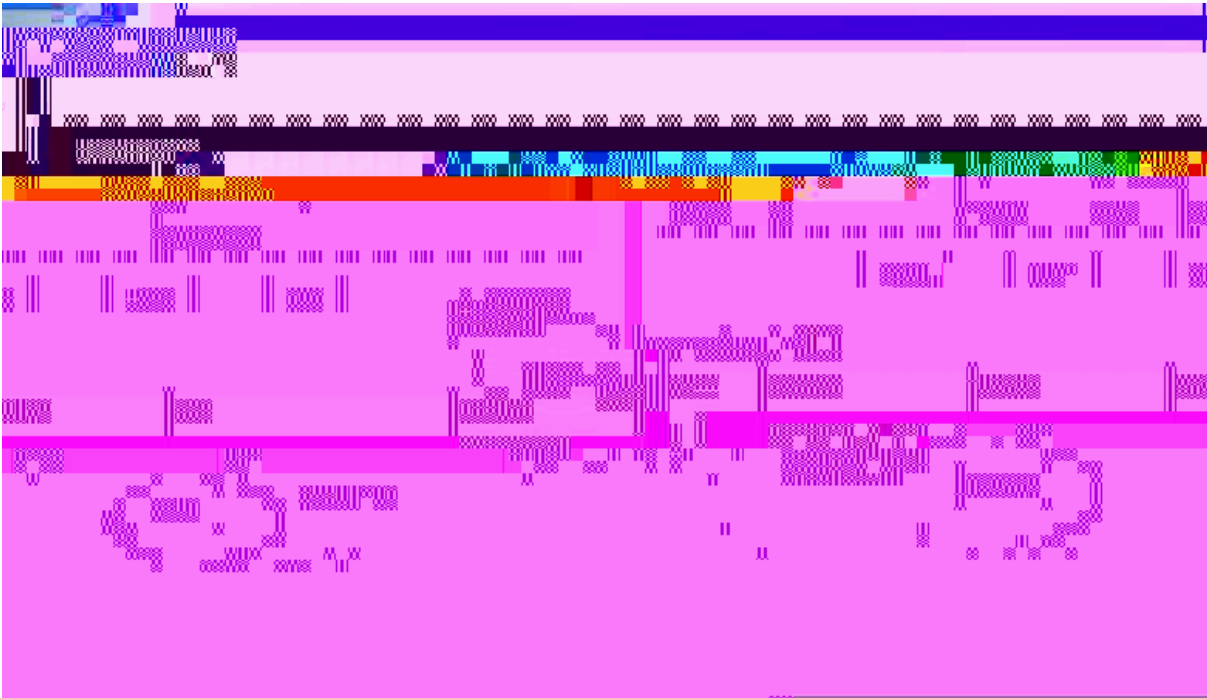


ip-address

IP

poll-interval seconds

1-2147483647



ID	ID
IP	IP 192.168.1.1
	poll-interval 1-2147483647
	0-255 (NBMA)
	1-65535 cost (point-to-multipoint)

--	--

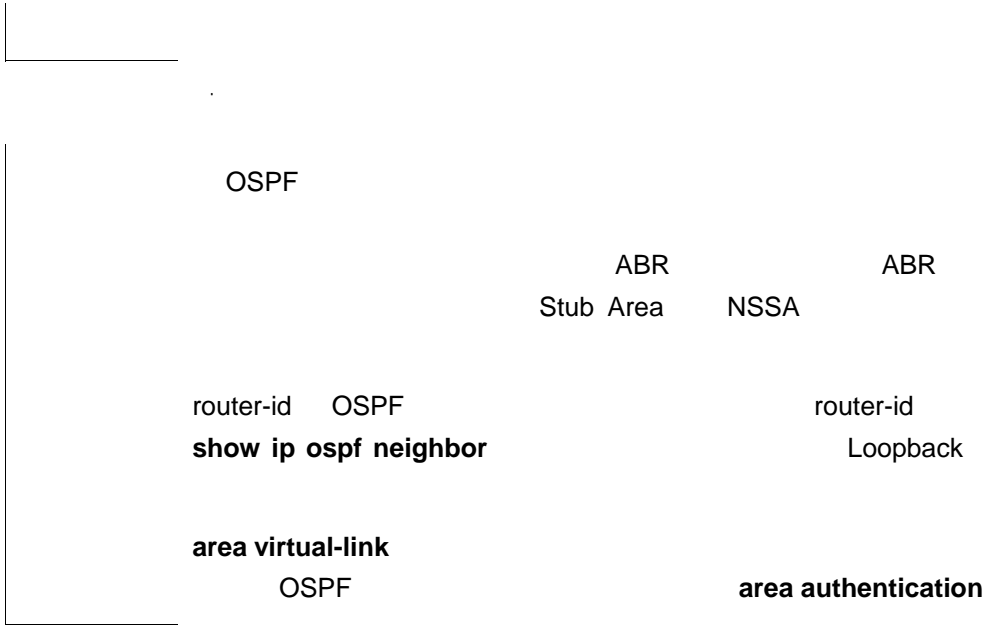
添加

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修改

, "ospf"
, \
”

dead-interval seconds	1-65535	
hello-interval seconds	OSPF 1-65535	Hello
retransmit-interval seconds	OSPF	LSA 1-65535



13.2.4.2

!>

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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 LSA 1-65535 LSA
authentication-key key	OSPF password-encryption service
message-digest-key key-id md5 key	OSPF MD5 MD5 service password-encryption
authentication	
MD5 authentication message-digest	MD5
null	

13.2.5

13.2.5.1

OSPF

OSPF

OSPF



13.2.5.2

ž CGD

CGD

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LSA

no

timers lsa-group-pacing seconds

no timers lsa-group-pacing

seconds	LSA	: 10-1800

240

LSA CPU (LSA age) CPU LSA LSA LSA

no

passive-interface [default | type number]

no passive-interface [default | type number]

type number	
default	

OSPF

CCD

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CCD

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CCD

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ID	ID
	,
OSPF	OSPF
OSPF	OSPF

13.2.5.3 OSPF

OSPF

110

OSPF

{distance| { distance| distance| distance}}
[]

distance	1-255
intra-area distance	1-255
inter-area distance	1-255
external distance	1-255

OSPF

!>

OSPF

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OSPF

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OSPF ID	
	1-255 110

	1-255	110
	1-255	110

13.2.5.4

OSPF

SPF

no

SPF

spf delayspf holdtime

spf delayspf holdtimespf maxwaittime



SPF

spf-delay

spf-delay spf-holdtime

OSPF

CPU

timers spf timers throttle spf

13.2.5.5

OSPF

ip address net mask { | value }

ip address net mask { | value }

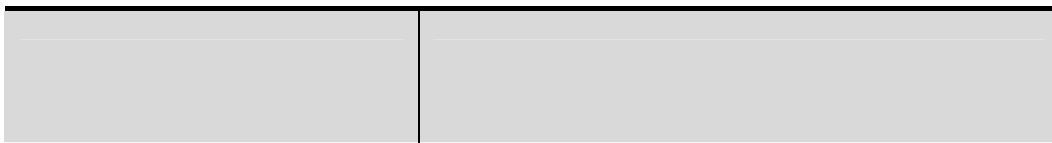
	ip-address	IP
	net-mask	
	not-advertise	
	tag value	tag 0-4294967295

OSPF

OSPF

area range

area



always	OSPF
metric metric	0-16777214
metric-type type	OSPF 1 2 1
route-map map-name	route-map , route-map

metric 1
metric-type 2

redistribute **default-information** OSPF ASBR
ASBR ASBR
default-information originate

always OSPF
showp OSPF -0.0.0.F

wp ip r6(obute)TC20 1 Tf02 Tw76183 0 TdPA5104B02C76A1C00C34B9E2C4F68043350E62CD543C32B03F263.335 -1.557
OSPF 1

00

!>

00

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13.3 OSPF

13.3.1

OSPF

ip ospf hello interval ip ospf dead interval ip ospf authentication ip ospf authentication key ip ospf message digest key, ip ospf network

OSPF

Step 1	:]fYkU`# configure terminal	
Step 2	:]fYkU`(config)# ip routing	()
Step 3	:]fYkU`(config)# interface interface-id	
Step 4	:]fYkU`(config-if)# ip ospf cost cost-value	
Step 5	:]fYkU`(config-if)# ip ospf retransmit-interval seconds	
Step 6	:]fYkU`(config-if)# ip ospf transmit-delay seconds	
Step 7	:]fYkU`(config-if)# ip ospf hello-interval seconds	hello
Step 8	:]fYkU`(config-if)# ip ospf dead-interval seconds	
Step 9	:]fYkU`(config-if)# ip ospf priority number	BDR DR

Step 10

```

:]fYkU `(config-if)# ip ospf priority
{broadcast          non-broadcast
point-to-multipoint non-broadcast  ]
point-to-point}

```

```

broadcast          OSPF

non-broadcast      OSPF
                   NBMA

point-to-multipoint [non-broadcast]
OSPF

                   , non-broadcast

point-to-point     OSPF

```

Step11 :]fYkU `(config-if)# ip ospf authentication
[message-digest | null]

	,
()	X.25 OSPF Frame-relay map X.25 map OSPF X.25 OSPF

()

OSPF	
100Mbps/Bandwidth	Bandwidth
	bandwidth
OSPF	
64K	cost 1562
E1	cost 48
10M	cost 10
100M	cost 1
ip ospf cost	OSPF

()

64K

<p>hello ()</p>	<p>hello hello OSPF hello hello 10 PPP HDLC 10 10 X.25 30</p>
<p>() dead-interval</p>	<p>OSPF Hello OSPF Hello hello 4 hello OSPF hello</p>
<p>()</p>	<p>OSPF hello OSPF DR/BDR DR BDR DR BDR DR/BDR OSPF broadcast non-broadcast ⚡ . DR BDR DR BDR</p>

<p>BFD ()</p>	<p>, , bfd all-interfaces ip ospf bfd BFD OSPF bfd all-interfaces OSPF BFD ip ospf bfd disable BFD</p>
<p>OSPF ()</p>	<p>, , network area network ospf OSPF OSPF</p>
<p>() ip ospf database-filter all out</p>	<p>, , LSA LSA LSA</p>
	<p>1: 2 3 MD5 no null , ,</p>

ip ospf authentication-key

OSPF

OSPF

KEY

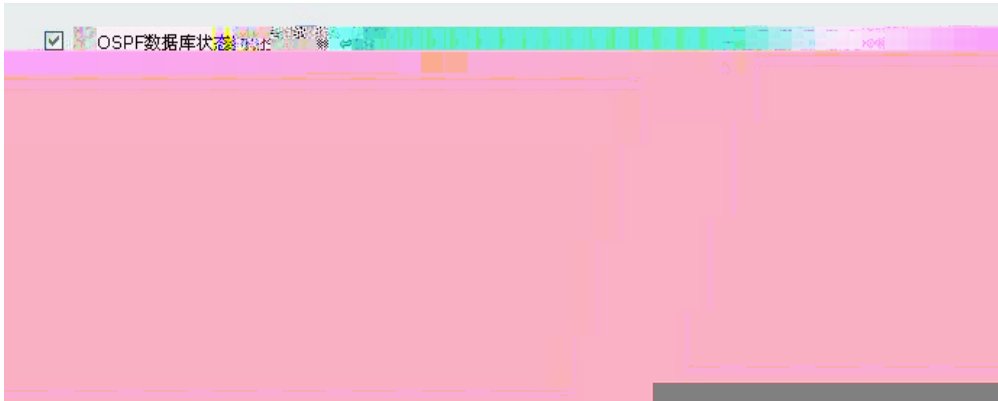
OSPF

area authentication

,

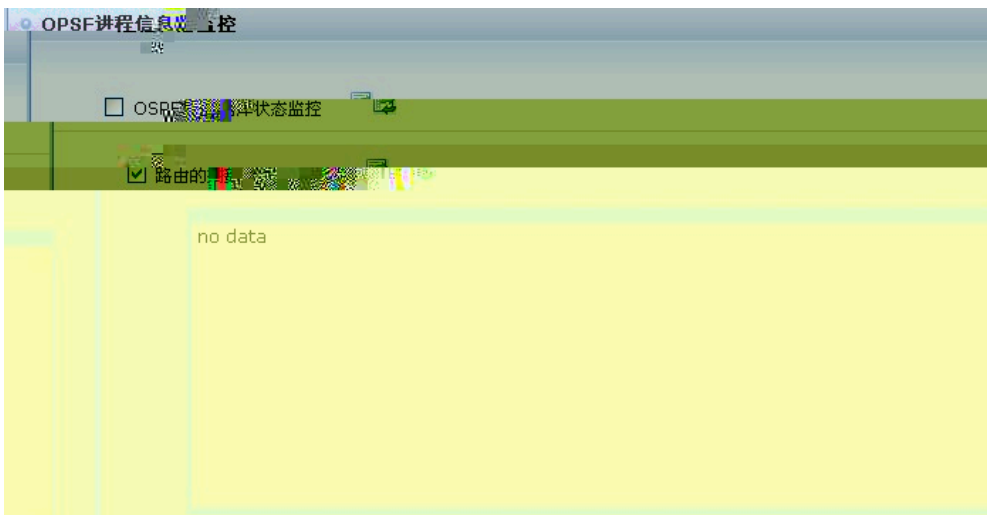
13.4.1

OSPF , OSPF , OSPF
>CGD CGD
OSPF OSPF



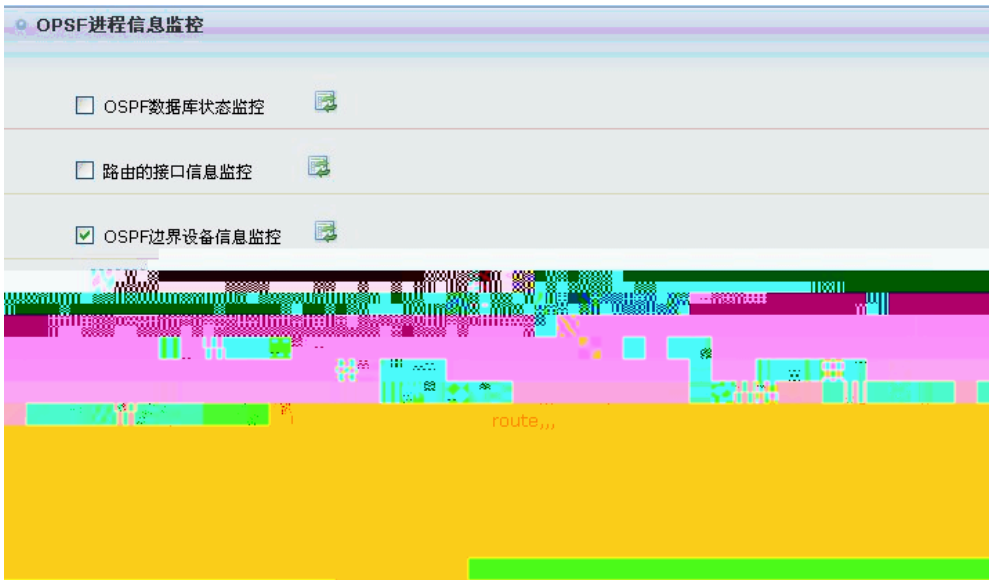
13.4.2

OSPF , OSPF , OSPF
>CGD CGD
OSPF OSPF



13.4.3

OSPF , OSPF , OSPF
>CGD CGD
OSPF OSPF



	# #
	#

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16.1SYSLOG

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16.2NTP

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