



Web

RGOS 10.3(4b6)p1

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service@ruijie.com.cn

RGOS®10.3 (4b6)p1

1.

Courier New

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2.

Arial

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3.1

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3.2

3.2.1 J@5B

3.2.1.1 J@5B

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3.2.2 6J=

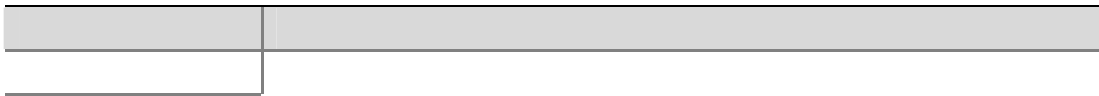
3.2.2.1 6J=

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4.1

4.1.1

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4.4.4

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6-3 ACE

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7 NAT

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7.2 B5H

7.2.1

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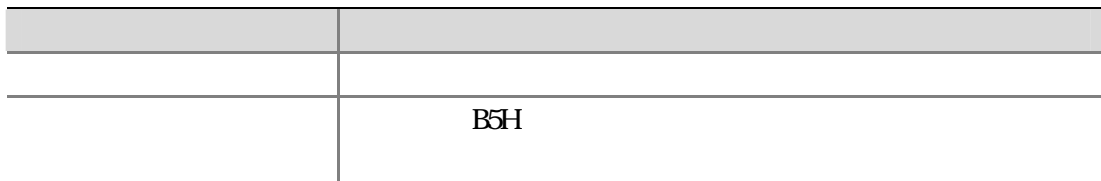
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7-2

7-2 NAT



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NAT
7-2

7-1

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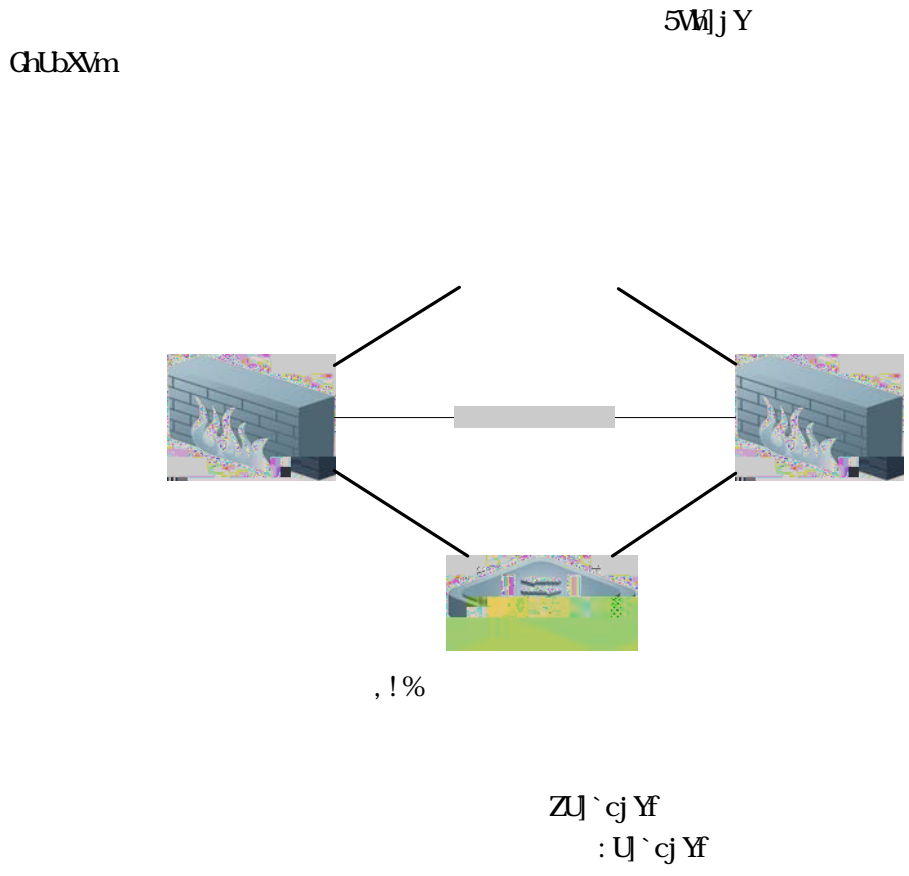
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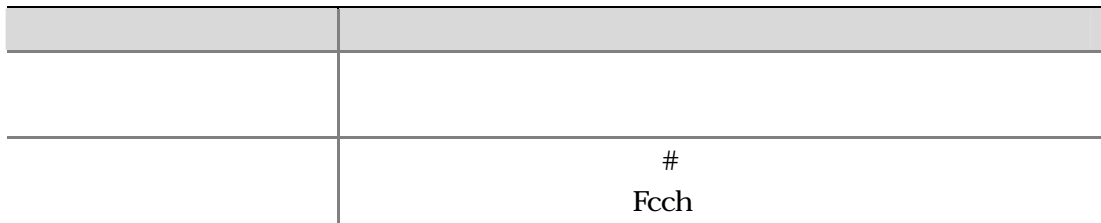
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9.2

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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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11.2.1.5 RIP

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11.2.2 RIP

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11.2.2.3

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11.2.2.4 RIP

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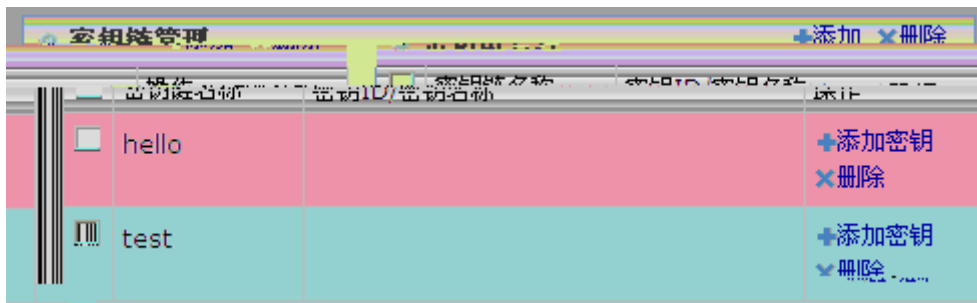
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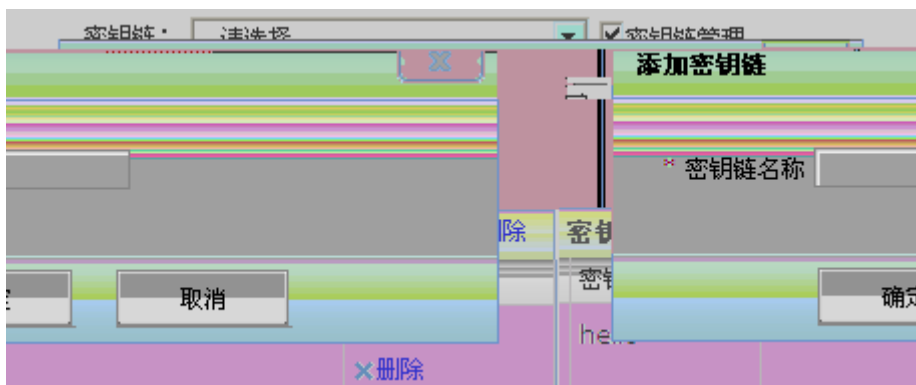
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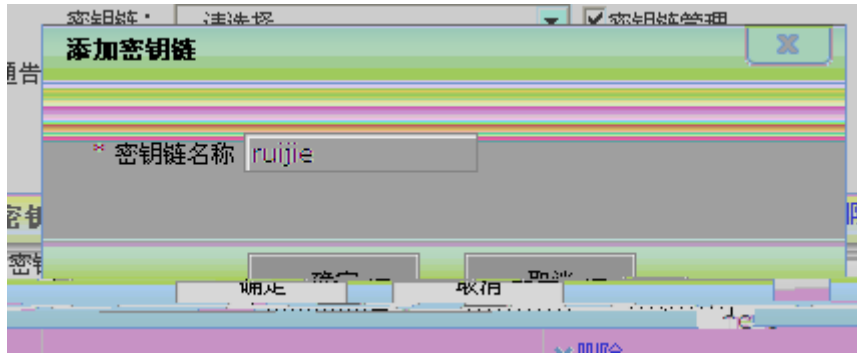
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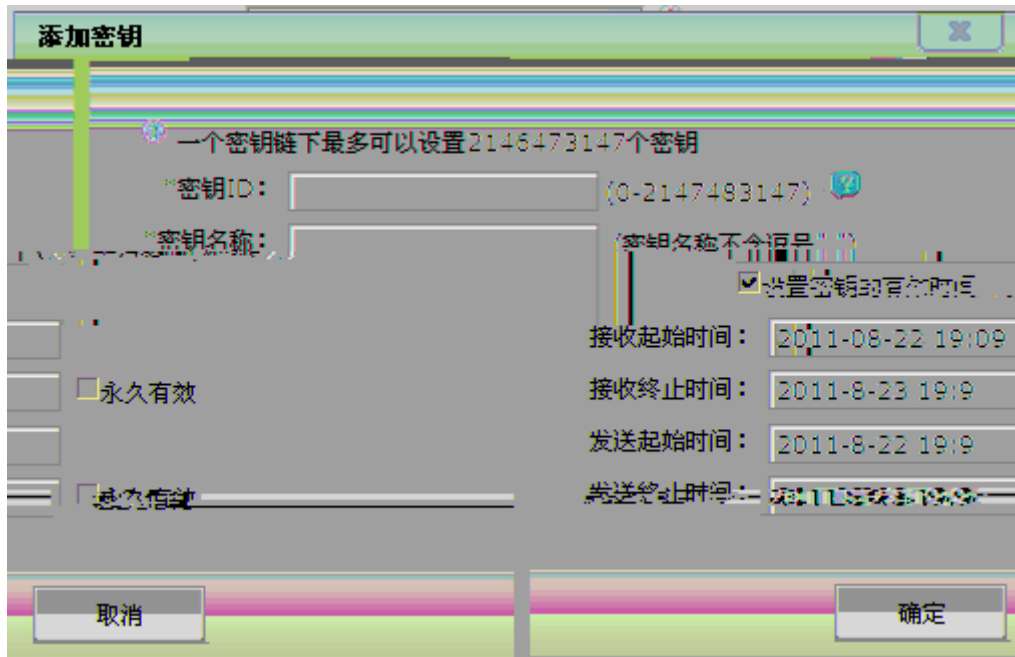


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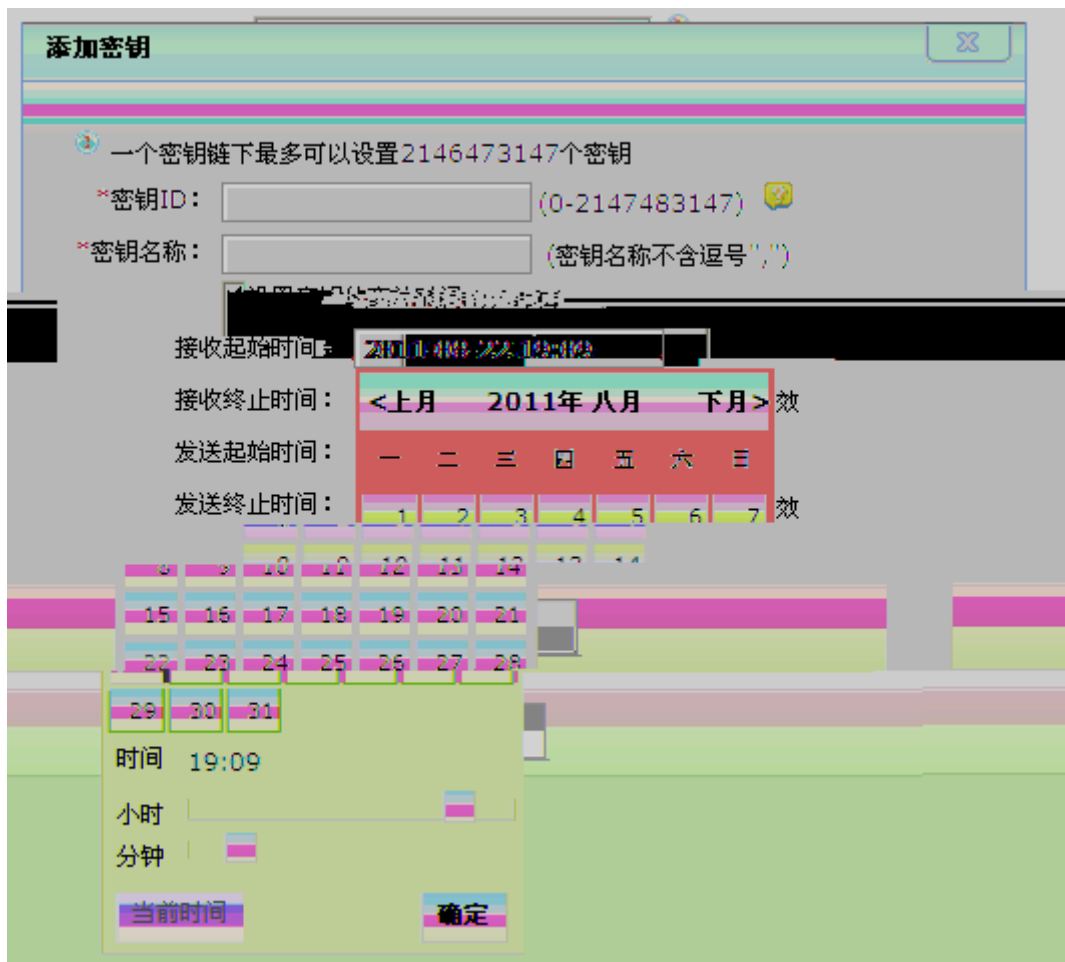


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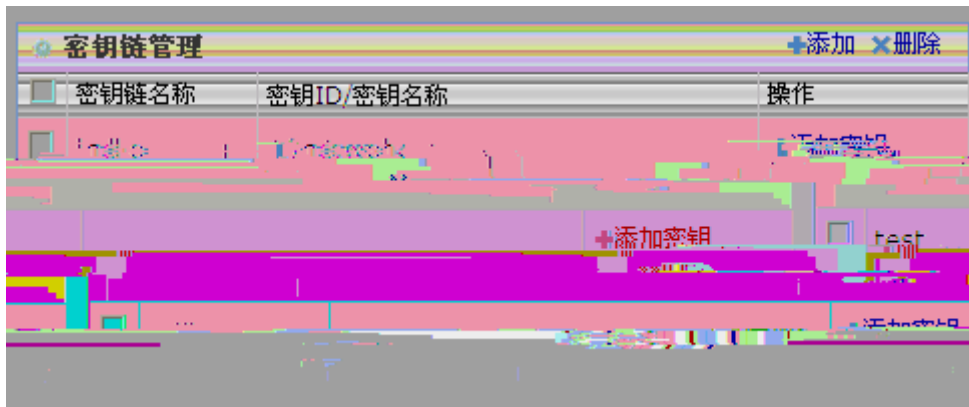
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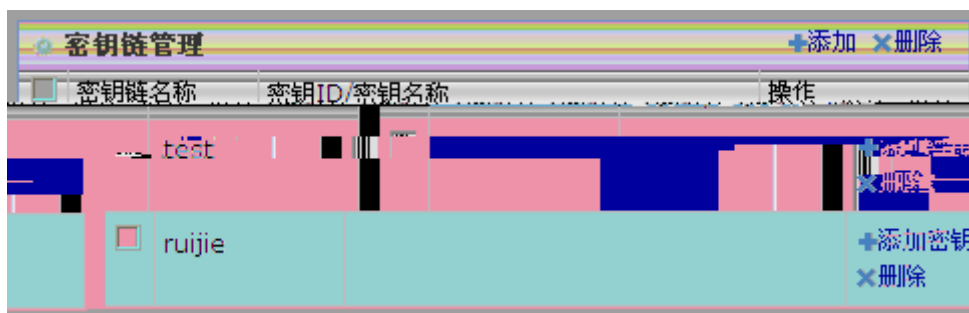
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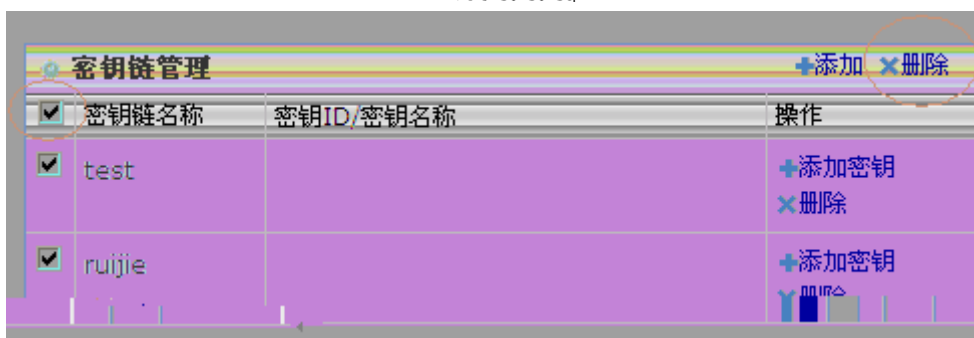
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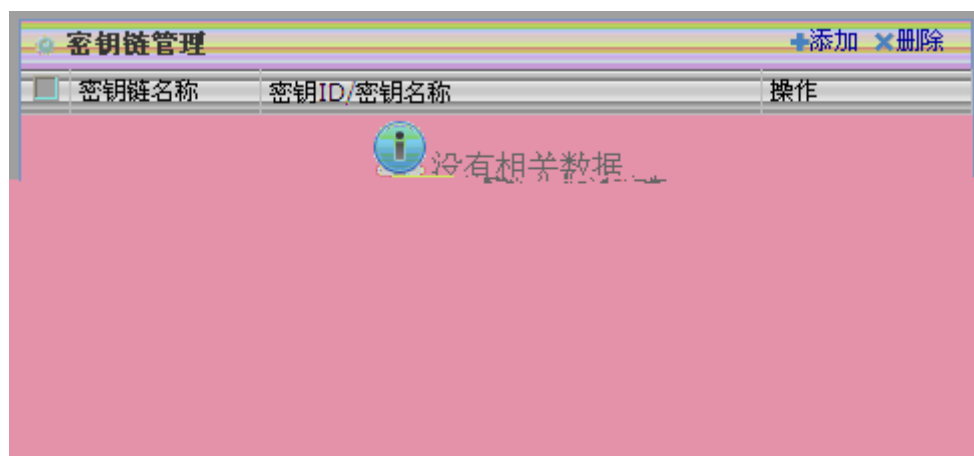
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11.2.2.9 VLAN

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11.2.2.10 VLAN

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12 OSPF

12.1

OSPF Open Shortest Path First IETF OSPF
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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
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2 ABR Area Border Routers ,

3 ASBR Autonomous System Boundary Routers ,

OSPF

OSPF

RFC 2328

OSPF v2

OSPF

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64 OSPF

VRF

VRF OSPF

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RIP BGP

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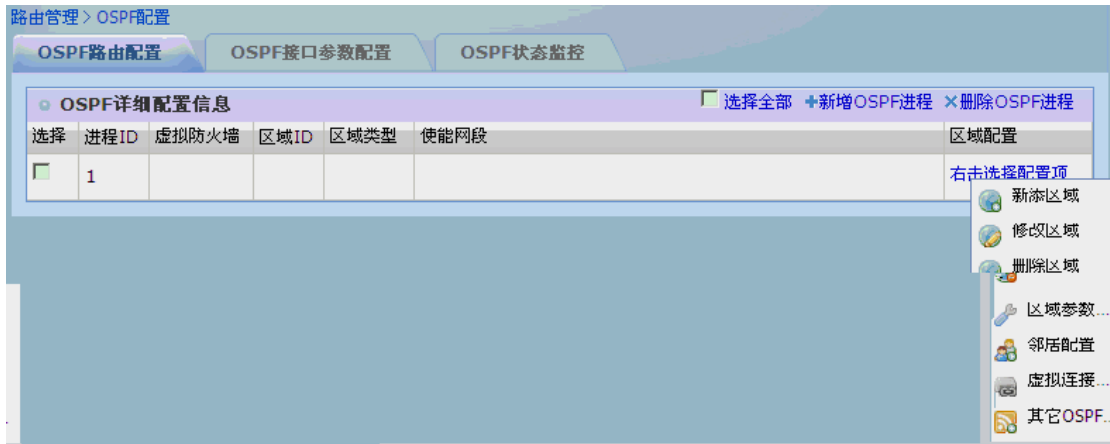
MD5

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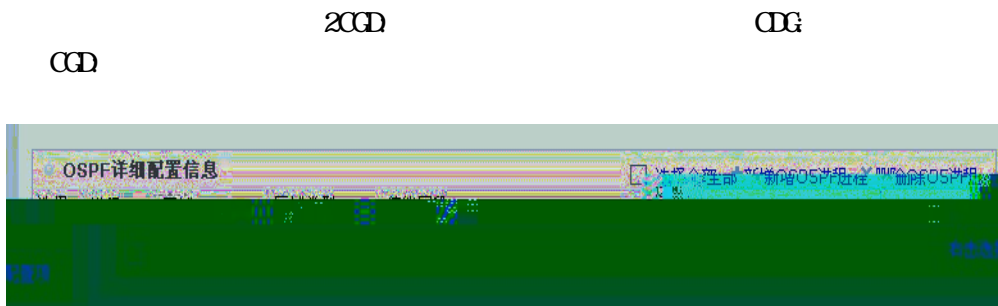
VLSMs

NSSA Not So Stubby Area RFC 3101

Graceful Rest (X)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

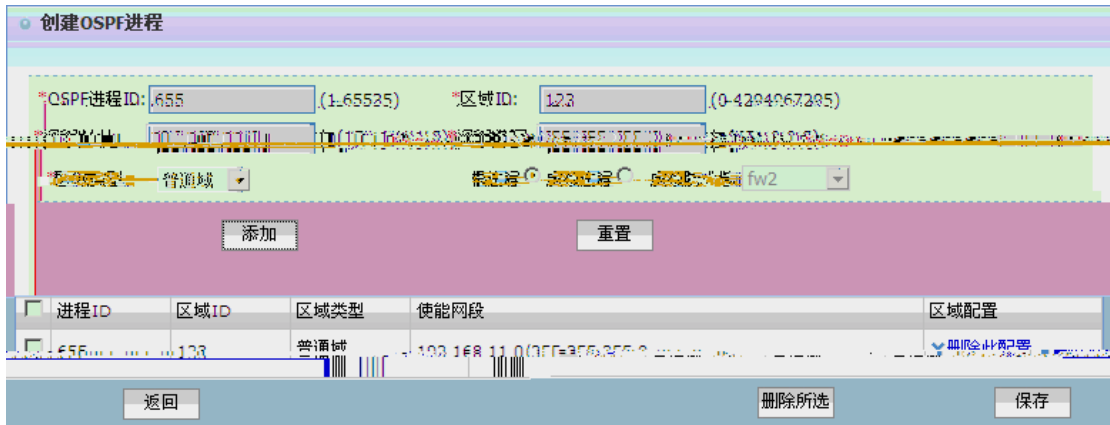
OSPF IP OSPF OSPF IP IP OSPF

OSPF

OSPF

| 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

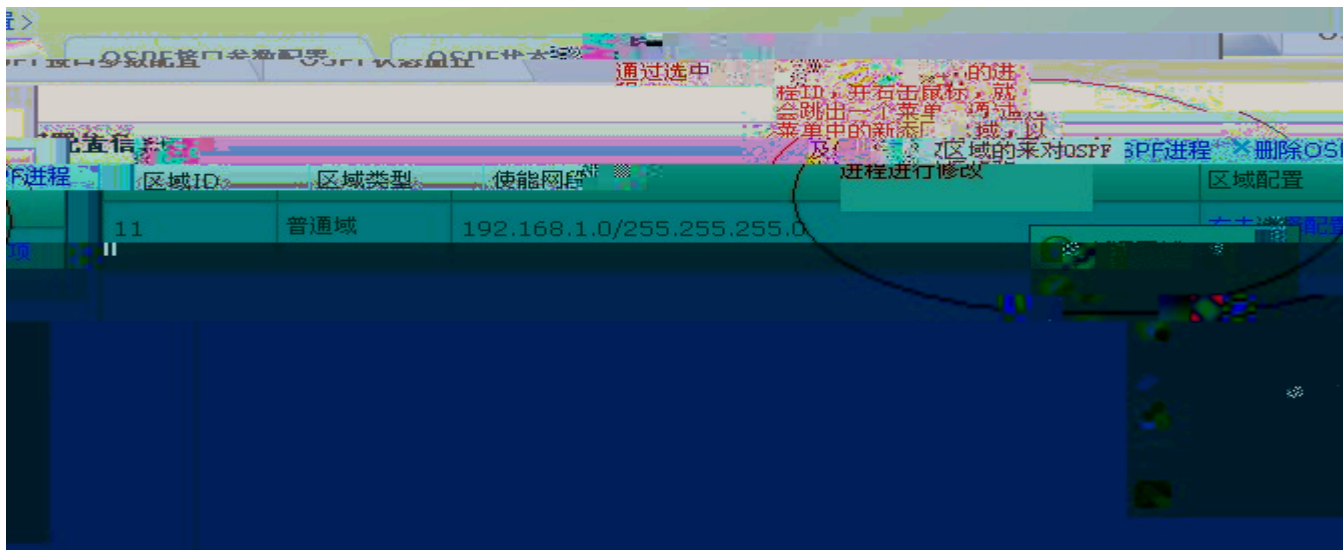
12.2.1.10.OSPF

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12.2.1.1.3.1

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12.2.1.1.3.2

OSPF

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12.2.1.1.3.4

OSPF

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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*]

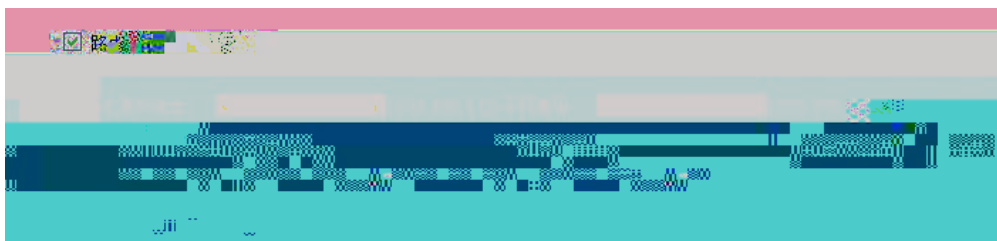
| | |
|----------------------------------|------------|
| | |
| <i>area-id</i> | OSPF IP |
| <i>ip-address net-mask</i> | |
| advertise not-advertise | |
| cost cost | 0-16777215 |

cost RFC1583 RFC1583
cost

ABR
advertise not-advertise
cost OSPF
area range

12.2.1.2.5.2

!2 =8
ž ž ž



| | |
|--|--|
| | |
|--|--|

| | |
|----------------------------------|-------------------------------|
| <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*]

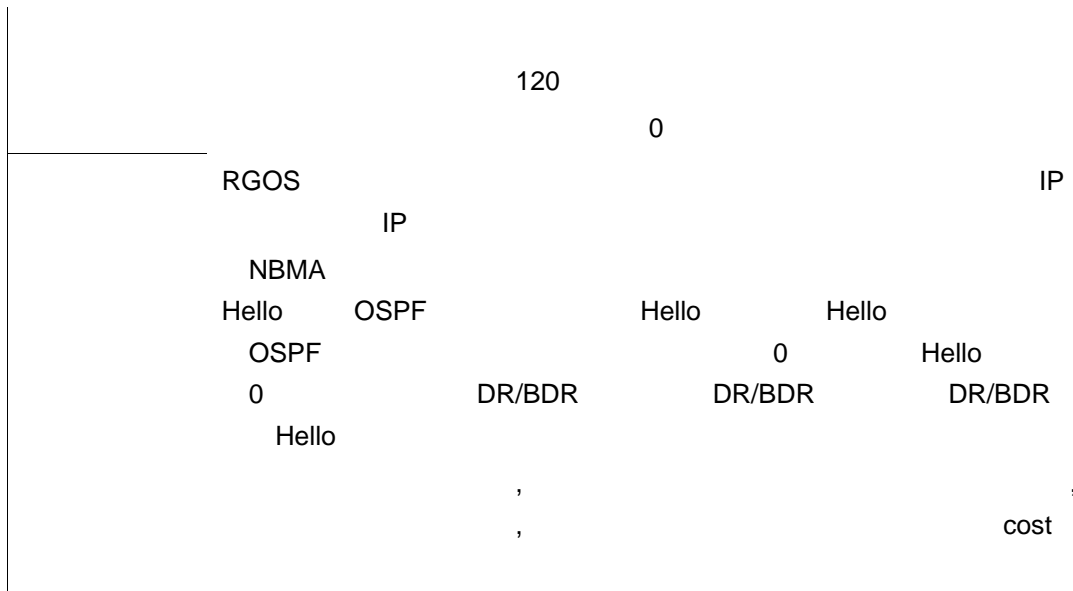
| | |
|------------------------|-----------------|
| <i>area-id</i> | |
| <i>acl-name</i> | acl |
| <i>prefix-name</i> | prefix-list |
| access prefix | prefix list ACL |
| in out | |

ABR

ABR




ACL ,prefiex

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



12.2.1.3.2

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|---|---|
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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

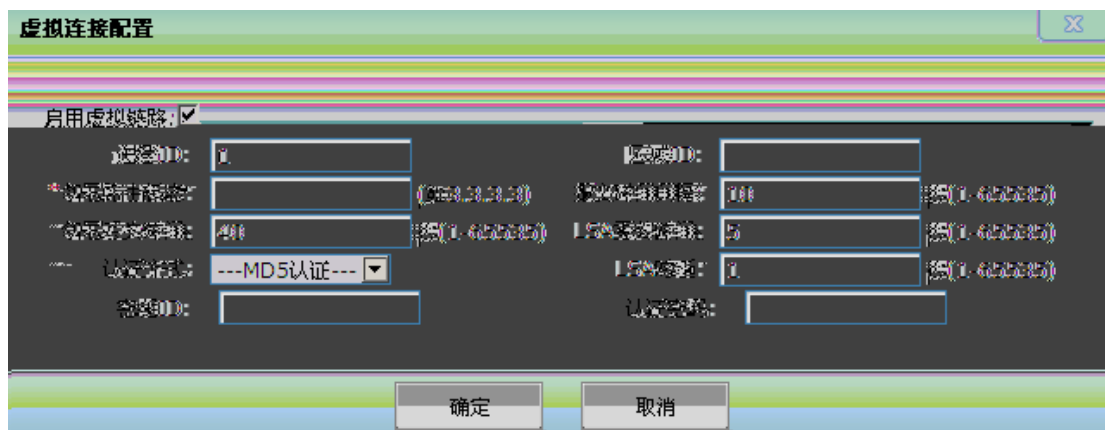
CGD

!2

CGD

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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 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

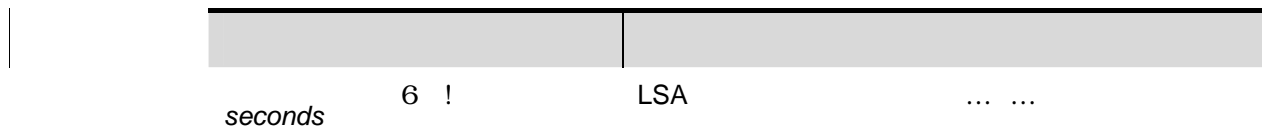
)

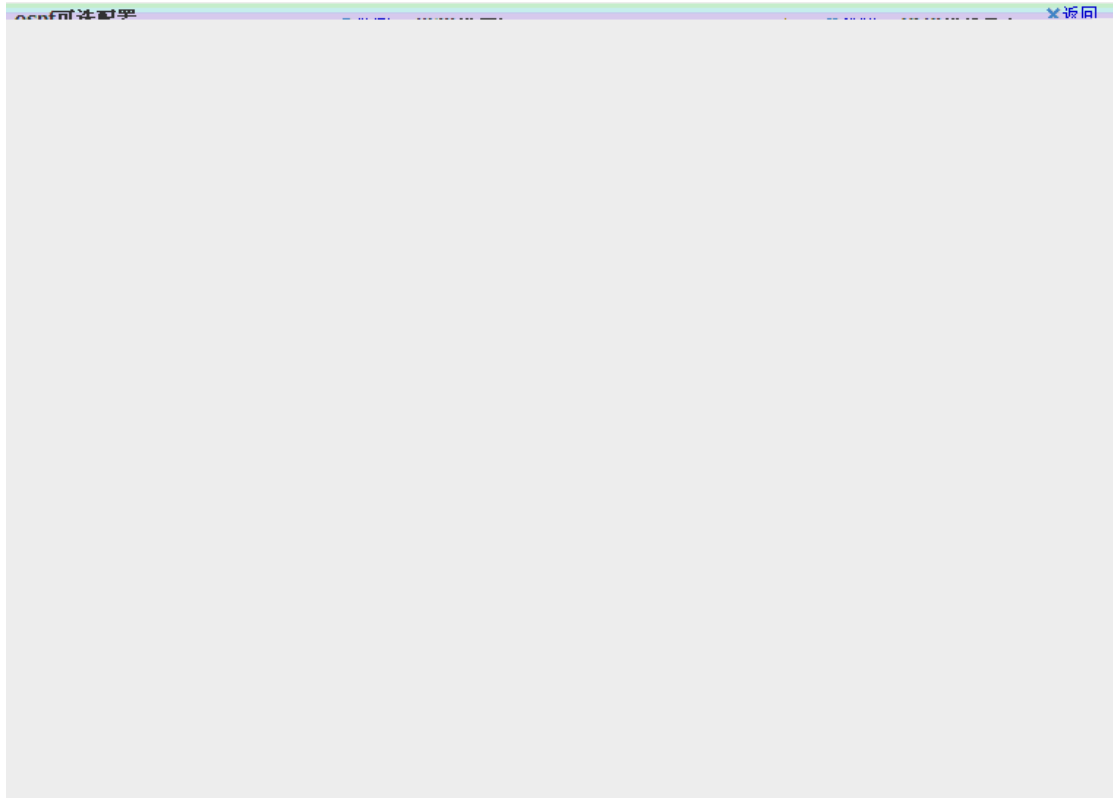
LSA

no

timers lsa-group-pacing *seconds*

no timers lsa-group-pacing





| <i>ID</i> | <i>ID</i> |
|-----------|-----------|
| | , |
| 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 | timers spf | |
| | timer throttle spf | | |

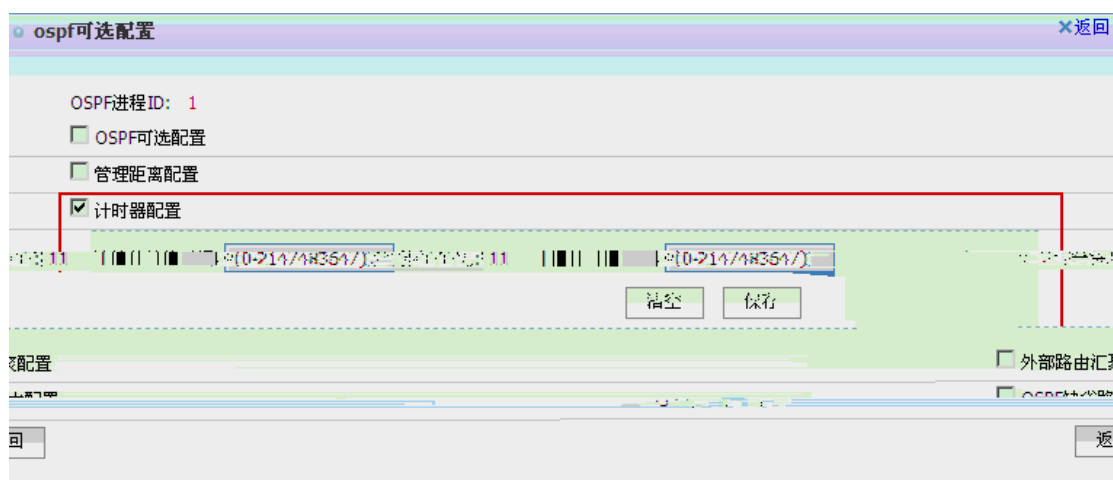
| | |
|--|---|
| | <pre> timers spf timers throttle spf RSR2.0 , timers spf-delay spf-holdtime </pre> |
|--|---|

12.2.1.5.4.2

```

OSPF < > !2 < > =8
OSPF < > < >

```



| 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}
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> | |
| | 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 | |

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12.2.2.2

2000

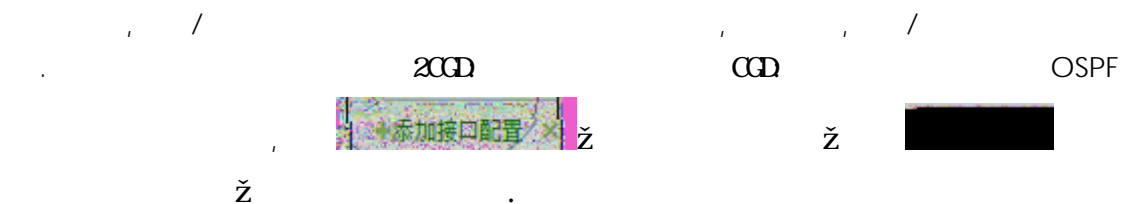
000

OSPF



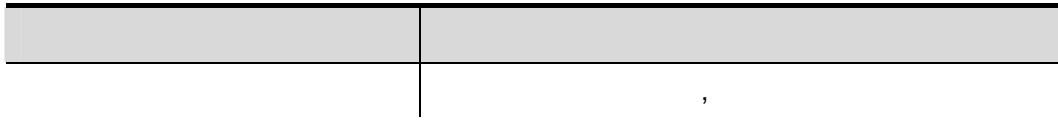
12.2.2.3

, /



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"/> |
| 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 000
 OSPF , OSPF :



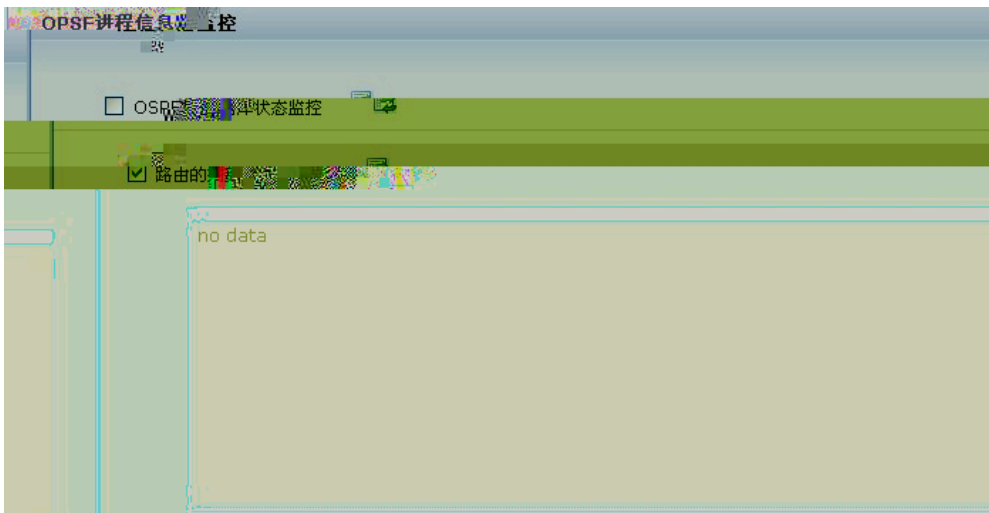
12.2.3.1 OSPF

OSPF , OSPF , OSPF
 OSPF , OSPF , OSPF



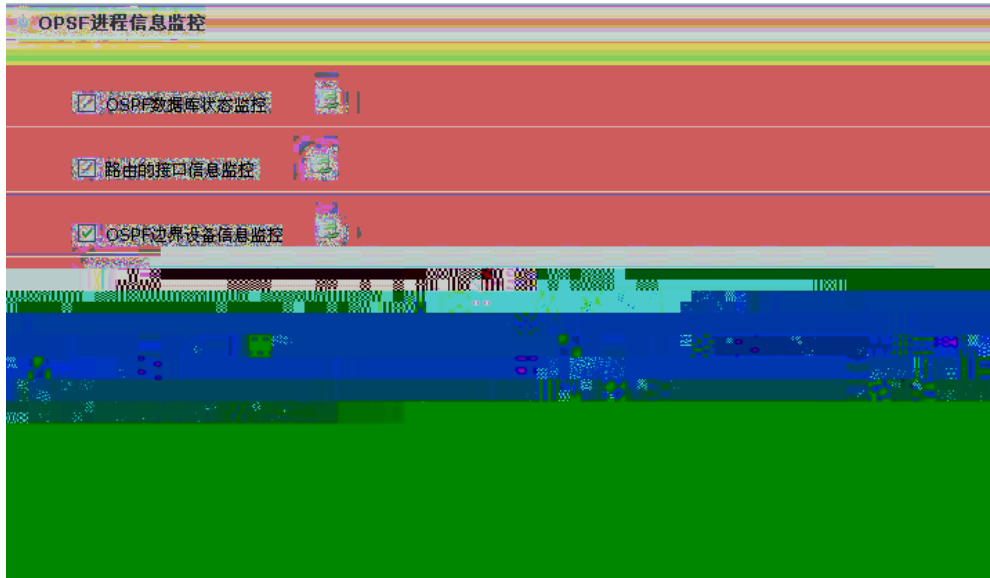
12.2.3.2

OSPF , OSPF , OSPF
 OSPF , OSPF , OSPF



12.2.3.3 OSPF

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 | <input type="checkbox"/> test |
| 超级管理员 | 修改 删除 | <input type="checkbox"/> admin |

%!%

13.2

!% %!&

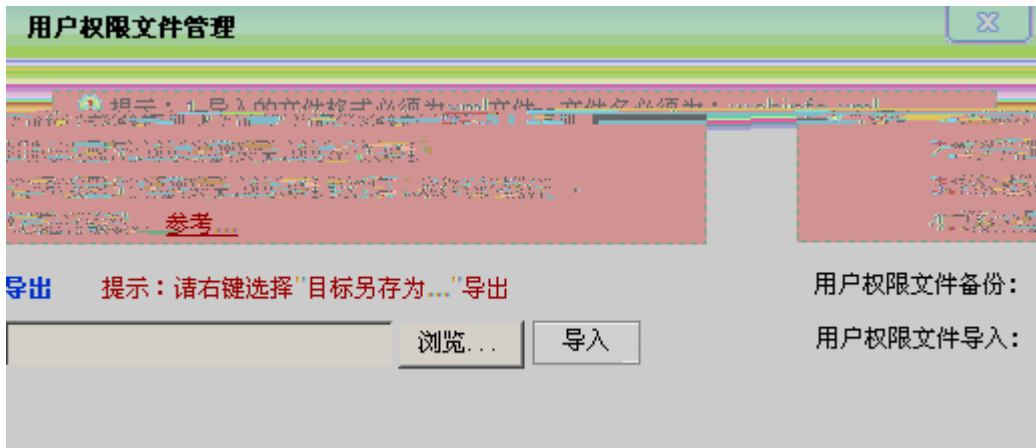
%!&

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| | =8 |

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| | |
| | # # |
| | # |

13.3

%!%
%!'



%!'

1.

2.

kY]bZc"la` /

3.

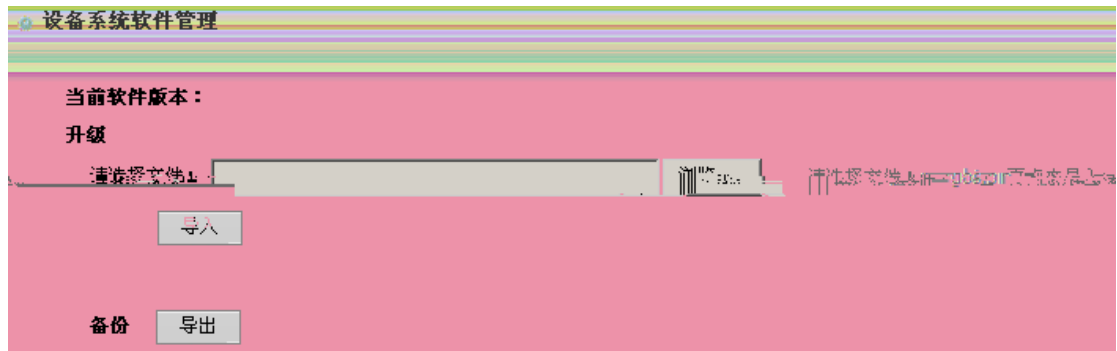
la`

14

14.1

2

%!%



%!%

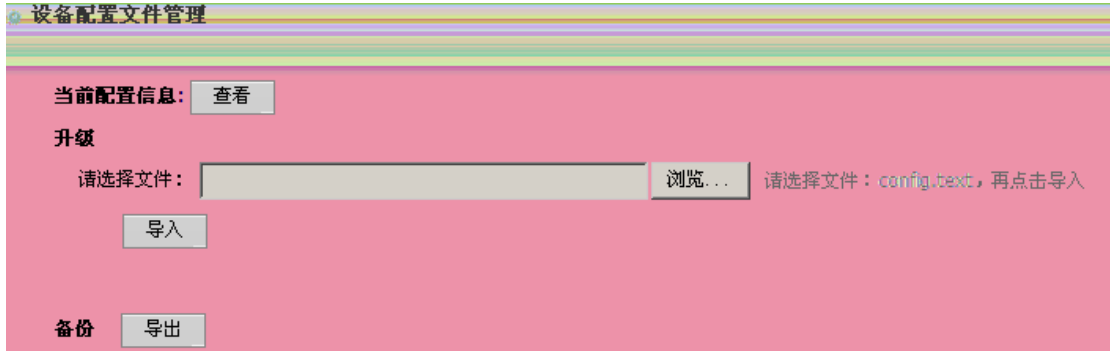
f[cg"V]b

V]b

f[cg"V]b

f[cg"V]b

=9



%!&

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

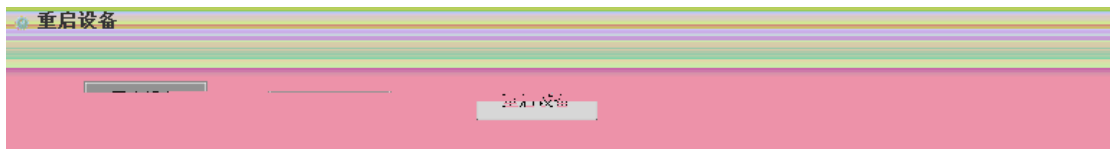
=9

WbZ] ["hYl h
Z Ug\

14.3

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%!'



%!'

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

%!%

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15.2NTP

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