RSR04E_08E_16E

1. ..... **4**

1.1. 4
1.2. 5
1.3. TAB 8
1.4. show 8
1.5. set 10
1.6. commit rollback 11

2. RSR **14**

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2.4. VLAN 21
2.5. VRRP 21
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4.7.2. 42
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4.7.4. 48
4.7.5. 50
4.7.6. 54

1.

RSR CLI(command-line interface) web

console telnet
console telnet IP
telnet root

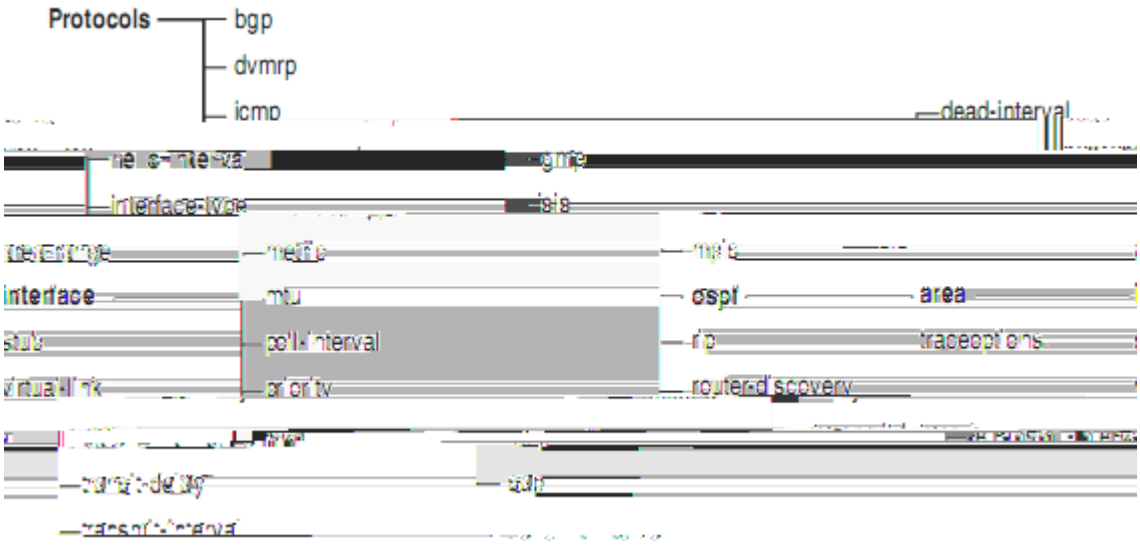
1.1.

CLI >,
configure edit

user@host> #

1.2.

RSR protocols
bgp isis ospf ospf
area traceoptions area interface area-range
dead-interval hello-interval interface



' set
edit set
ospf area 0 interface fe-1/3/0.0 hello-interval 10
:

5

5

5

5

5

5

5 5

5

5

5 5

5 5

5 5

1.3.

```
    Logical interface fe-1/3/0.0 (Index 83) (SNMP ifIndex 71)
      Flags: SNMP-Traps 0x4000 VLAN-Tag [ 0x8100.33 ]    Encapsulation: ENET2
      Input packets : 0
      Output packets: 0
      Protocol inet, MTU: 1500
        Flags: None

    Logical interface fe-1/3/0.12 (Index 84) (SNMP ifIndex 23)
      Flags: SNMP-Traps 0x4000 VLAN-Tag [ 0x8100.100 ]    Encapsulation: ENET2
      Input packets : 0
      Output packets: 0
      Protocol inet, MTU: 1500

lab@M7i_GZ>
```

show　　show interface　　interface

```
lab@M7i_GZ# show interfaces
fe-1/3/0 {
    accounting-profile test;
    vlan-tagging;
    unit 0 {
        vlan-id 33;
        family inet;
    }
    unit 200 {
        vlan-id 200;
        family inet {
            address 202.103.224.1/24;
        }
    }
}

[edit]
lab@M7i_GZ#
```

show
run

```
lab@M7i_GZ# run show interfaces

Physical interface: fe-1/3/0, Enabled, Physical link is Up
  Interface index: 142, SNMP ifIndex: 31
```

Link-level type: Ethernet, MTU: 1518, Speed: 100mbps, Loopback: Disabled, Source filtering: Disabled,

Flow control: Enabled

Device flags : Present Running

Interface flags: SNMP-Traps Internal: 0x4000

CoS queues : 4 supported, 4 maximum usable queues

Current address: 00:05:85:dc:cc:db, Hardware address: 00:05:85:dc:cc:db

Last flapped : 2007-06-29 20:37:17 HKT (1w2d 00:36 ago)

Input rate : 792 bps (0 pps)

Output rate : 672 bps (0 pps)

Active alarms : None

Active defects : None

Logical interface fe-1/3/0.0 (Index 83) (SNMP ifIndex 71)

Flags: SNMP-Traps 0x4000 VLAN-Tag [0x8100.33] Encapsulation: ENET2

Input packets : 0

Output packets: 0

Protocol inet, MTU: 1500

Flags: None

[edit]

lab@M7i_GZ#

lab@M7i_GZ# **run ping 172.27.69.8**

PING 172.27.69.8 (172.27.69.8): 56 data bytes

64 bytes from 172.27.69.8: icmp_seq=0 ttl=64 time=5.118 ms

64 bytes from 172.27.69.8: icmp_seq=1 ttl=64 time=7.949 ms

64 bytes from 172.27.69.8: icmp_seq=2 ttl=64 time=7.018 ms

^C

--- 172.27.69.8 ping statistics ---

3 packets transmitted, 3 packets received, 0% packet loss

round-trip min/avg/max/stddev = 5.118/6.695/7.949/1.178 ms

[edit]

lab@M7i_GZ#

lab@M7i_GZ# **run ping 172.27.69.8** lab@M7i_GZ> **ping 172.27.69.8**

1.5. set

show show configure “

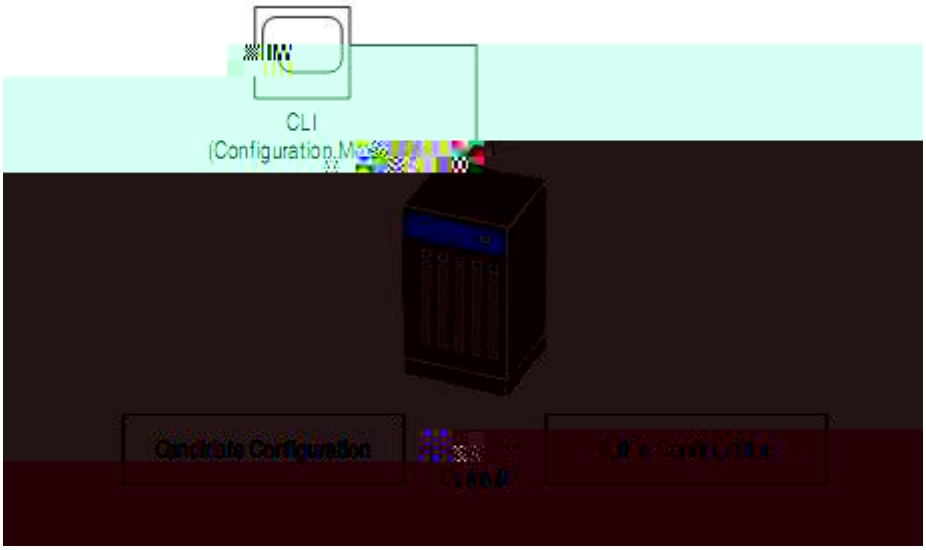
” show

display set set

```
lab@M7i_GZ# show protocols ospf
export Test_Policy_1;
area 0.0.0.0 {
    interface fe-1/3/0.0 {
        hello-interval 10;
    }
}

[edit]

lab@M7i_GZ# show protocols ospf | display set
set protocols ospf export Test_Policy_1
set protocols ospf area 0.0.0.0 interface fe-1/3/0.0 hello-interval 10

[edit]
lab@M7i_GZ#
```

1.6. commit rollback

cisco f ضخ



commit commit check

RE commit synchronize

rollback rollback 1
rollback 2 2

```
lab@M7i_GZ# show system host-name
host-name M7i_GZ;

[edit]
lab@M7i_GZ# set system host-name R1

[edit]
lab@M7i_GZ# commit
commit complete

[edit]
lab@R1# show system host-name
host-name R1;

[edit]
lab@R1# rollback 1
load complete

[edit]
lab@R1# show system host-name
host-name M7i_GZ;
```

[edit]
lab@R1# commit
commit complete

[edit]
lab@M7i_GZ#

2.

set system services ftp

ftp ftp ftp

set system name-server 192.168.1.1

2.2. SNMP

set snmp community <community> authorization < read-only/ read-write> clients
<prefix> # SNMP
set snmp tra [illegible]

2.3.

IP Cisco RSR
unit vlan

set interface *so-*

set chassis aggregated-devices ethernet device-count <count> #

```
        }
    }
```

2.4. VLAN

vlan

```
#                    100
set                          unit 0 family inet address 10.1.1.1/24 vrrp-group 0 preempt hold-time 30
#                           30
set                          unit 0 family inet address 10.1.1.1/24 vrrp-group 0 accept-data
```

```
                :
                    {
        vlan-tagging;
        unit 0 {
            vlan-id 10;
            family inet {
                address 10.1.1.1/24{
                    vrrp-
```

2.6.

set routing-options static route *network/mask* next-hop *address*
#

2.7. Policy

user@host# set policy-options policy-statement *policy-name* [term *name*] from <*conditions*>

policy From From

user@host# set policy-options policy-statement *policy-name* [term *name*] then <*action*>

2.8. GRE Tunnel

user@host#

2.9. NAT

IP 192.200.8.139 202.192.12.245 IP

output

```
set services nat rule nat-output match-direction output
set services nat rule nat-output term a from source-address 192.200.8.139/32
set services nat rule nat-output term a then translated source-prefix 202.192.12.245/32
set services nat rule nat-output term a then translated translation-type source static
```

input

```
set services nat rule nat-input match-direction input
```

3.

3.1.

RSR

1. console CIP CONSOLE
2. CLI
3. ...
4. console
5. Juniper TAC JTAC

3.2.

RSR

1. console CIP CONSOLE
2. CLI
3.
4. console
5.

“ ” 60 800

3.3. JUNOS

RSR JUNOS

1. console

5

5

5

5

5

5

7.

–

4. **recovery**

800

3.5.

- _____
- _____
- _____
- _____

- CLI _____
- LED
- _____
- _____ JTAC _____

CLI

JUNOS CLI
CLI ping traceroute

Craft Interface CONSOLE ETHERNET AUXILIARY CLI

CLI “ _____ ”

LED

LED

- Craft Interface LED
- LED

Craft Interface LED

Craft Interface Craft Interface
LED LED Cutoff

LED

LED

- PIC LED——PIC LED
- LED—— OUTPUT OK LED

“ LED ”

Craft Interface LED
Craft Interface

- Chassis alarms ——
- Interface alarms ——

“ LCD ” LCD “ CLI ”

3-1

	5
	5

FEB PIC

- FEB
- PIC

FEB

FEB FEB

FEB

- FEB
- Craft Interface LED FEB

PIC

PIC

- PIC LED
- CLI PIC

OK LED FAULT

■ Craft Interface LED

FEB

- FEB
- PIC

FEB

FEB FEB

- Console FEB
- FEB

PIC

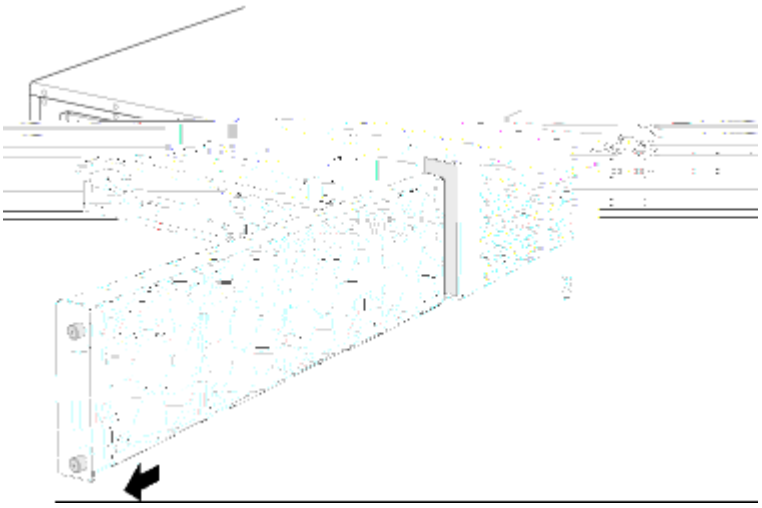
PIC

- PIC LED PIC STATUS LED

LED

-

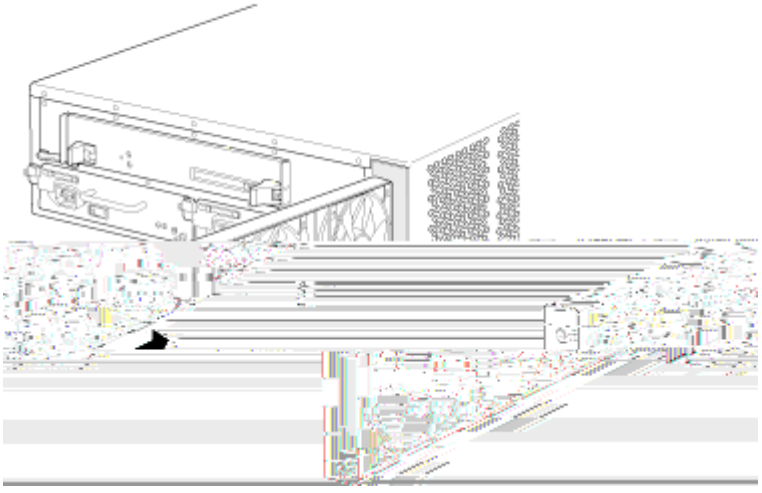
	FEB PIC



3-1

3-2

1. ESD Point
2.
3.



3-2

PFE

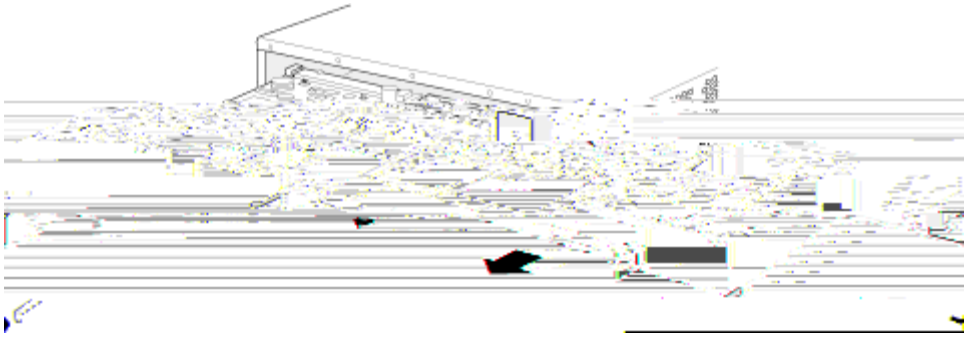
- FEB
- PIC
- SFP

FEB

FEB FEB 7 3.2 FEB

FEB

- FEB
- FEB

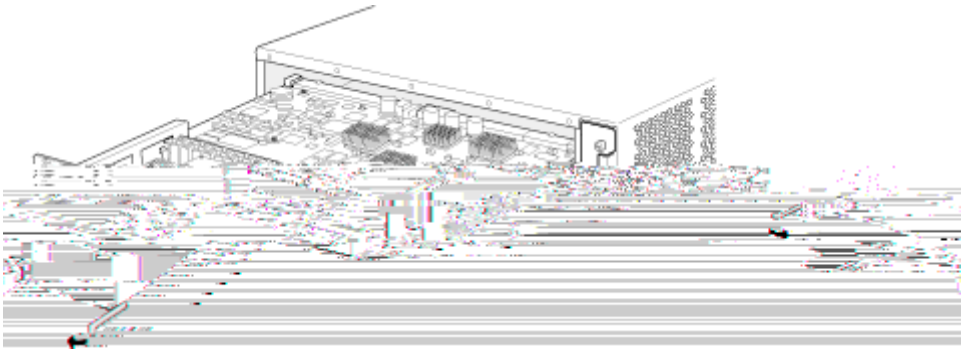


3-3 FEB

FPC

FEB 3-4 FEB

1. OFF(0)
2. ESD Point
3. FEB FEB
4. FEB FEB
5. FEB
6.
7. CLI show chassis feb FEB



3-4 FEB

PIC

PIC PIC PIC PIC

- PIC

■ PIC

PIC

PIC 3-5 PIC

1. PIC

2. ESD Point

3. PIC

■ PIC offline 5 FAIL LED

■

4. PIC

5. PIC PIC

6. PIC

7. PIC

3-5 PIC

PIC

PIC 3-6 PIC

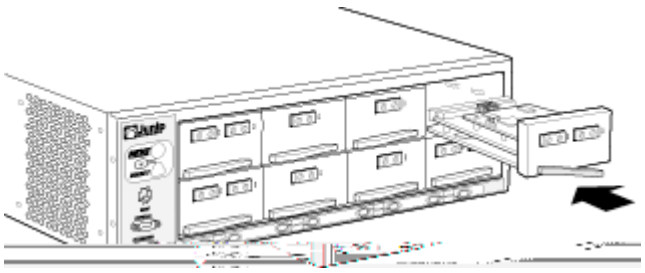
1. ESD Point

2. PIC PIC

3. PIC PIC PIC

4. PIC

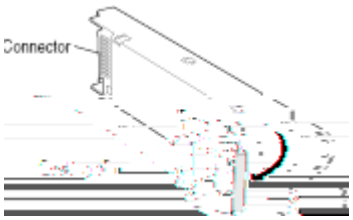
- PIC offline 5 LED
-



3-6 PIC

SFP

SFP Small form factor pluggable PIC 3-7 SFP



3-7 SFP

SFP SFP

SFP

- SFP
- SFP

SFP

SFP

1. SFP
2. ESD Point

3. SFP SFP

4. SFP

5.

6. SFP PIC SFP

SFP

PIC

1. ESD Point

2. SFP

3. PIC SFP SFP ś SFP

   ■ PIC 10 SFP ś SFP

   ■ PIC SFP ś FPC ś SFP

   FPC SFP

4. SFP PIC

5. SFP SFP

6.

7. PIC LED

ś

■ _____

■ _____

7 3.2

3-8

1.

2.

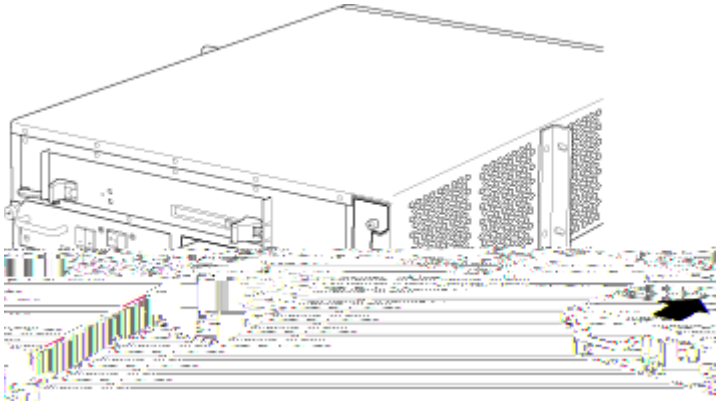
■ — -48V

7.

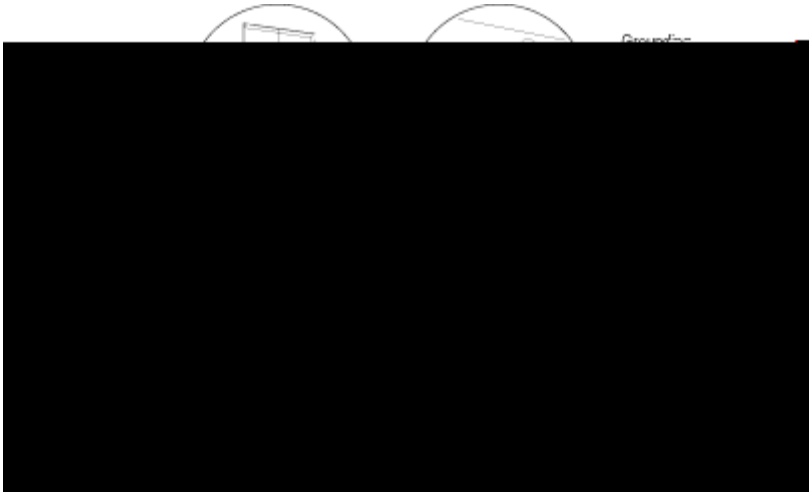
8.

9. |

LED OUTPUT OK LED



3-9



3-10

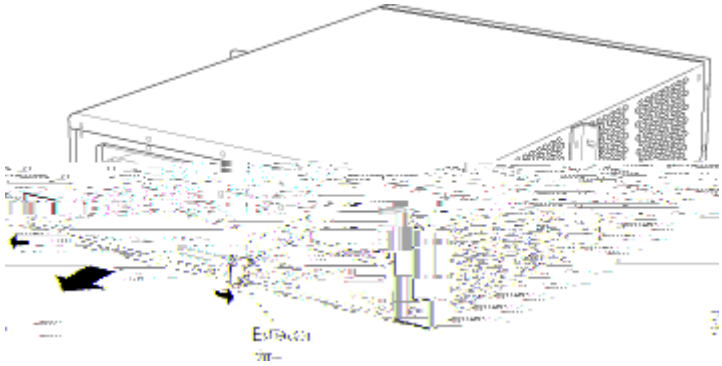
■ PC Card

■

PC Card

PC CARD Type I PCMACIA
PC Card JUNOS PC Card JUNOS
JUNOS PC Card

2. PC Card

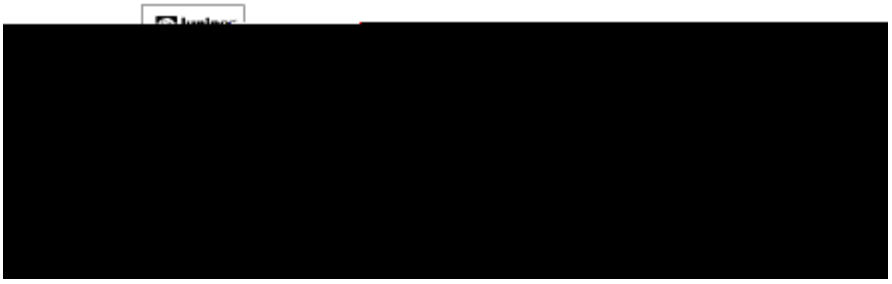


3-13

RE

3-14

1. ESD Point
2.



3-15

- Ethernet
- Console Auxiliary

Ethernet

RJ45 ETHERNET Ethernet

1. ETHERNET

   3-16 Ethernet

2. ETHERNET RE0

   RE0 RE1 RE1

3.

3-16 Ethernet

Console Auxiliary

CIP CONSOLE Modem
CIP AUXILIARY RS-232

DB-9/DB-9

console auxiliary

1. CONSOLE AUXILIARY

- console auxiliary
-
-
-