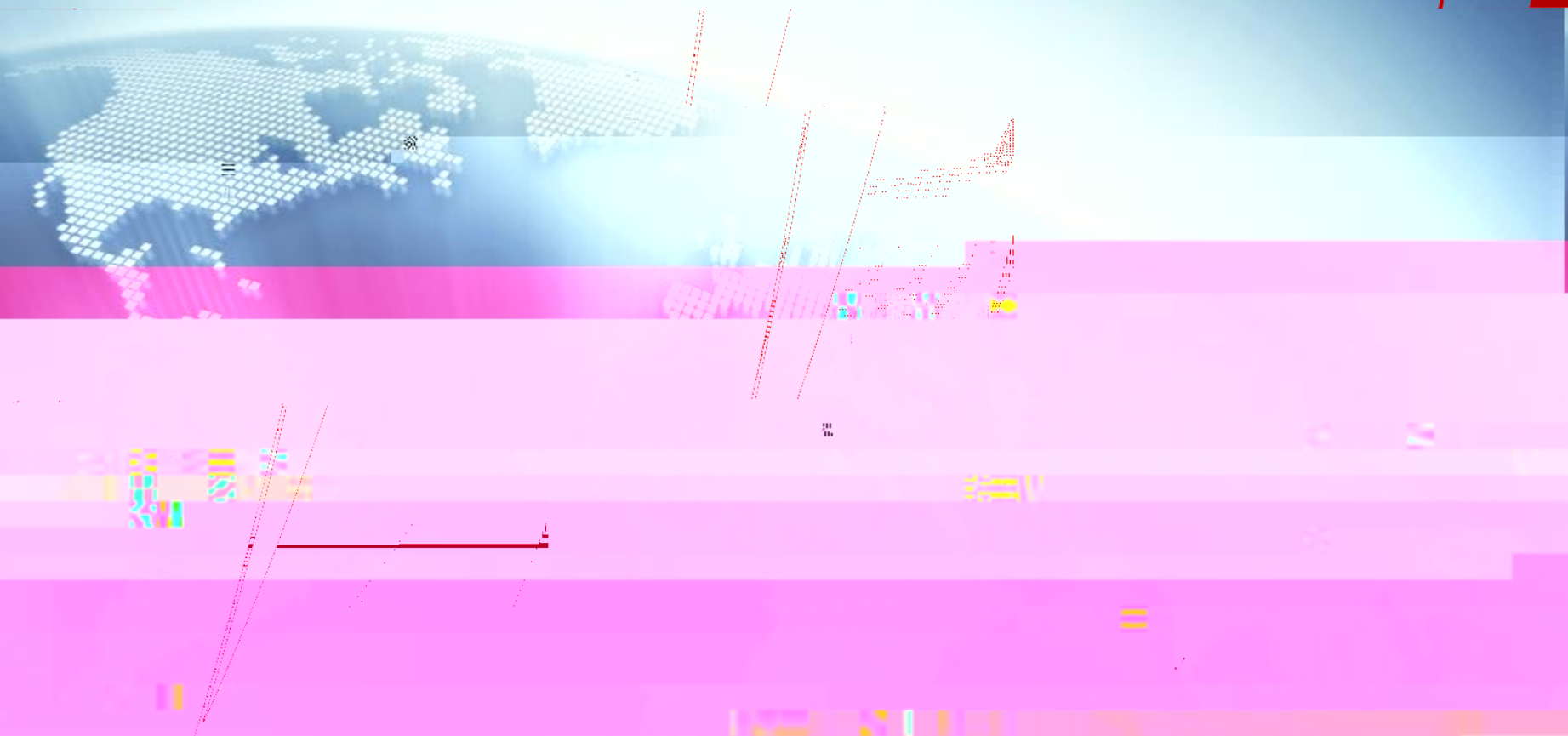


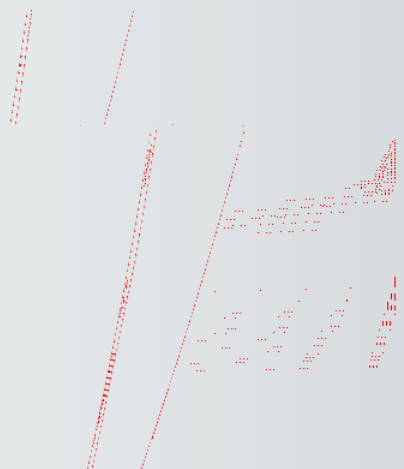
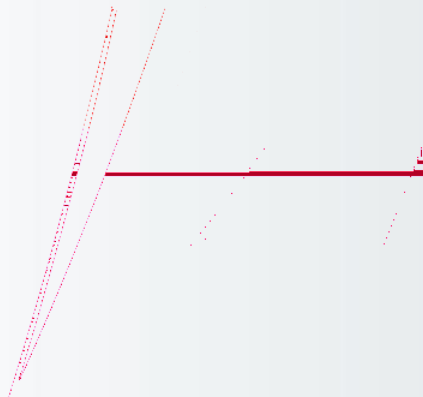
# RG-IS2700G



# Contents

SmartWeb

ERPS





# (ERPS)

ERPS(Ethernet Ring Protection Switching)

ITU

G.8032

ERPS      EAPS   RPR   SDH   STP

ERPS

STP

STP

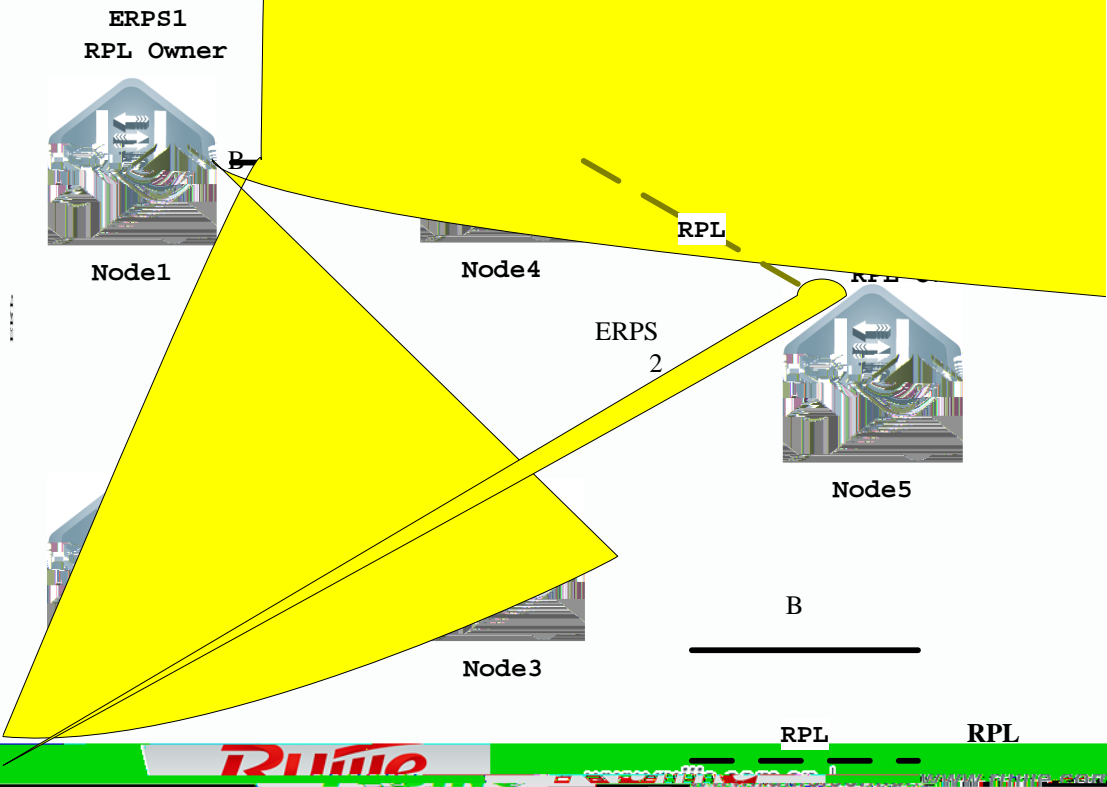
ERPS

50ms

# (ERPS)

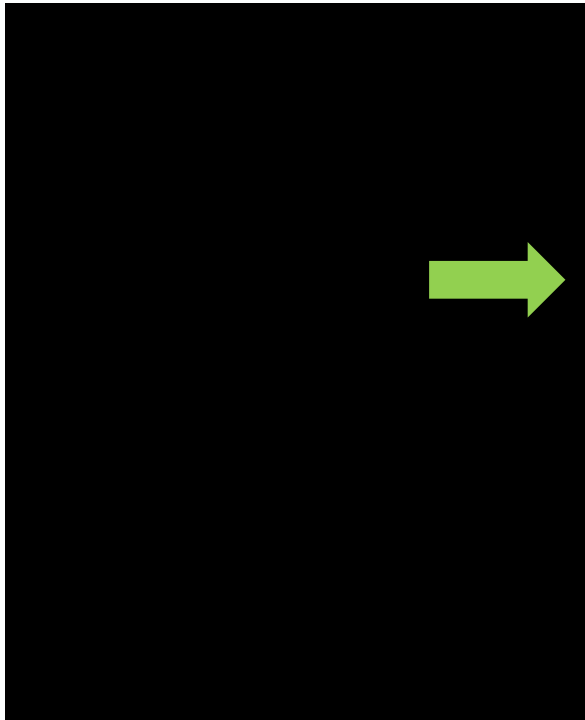
ERPS ring 1

ERPS ring2

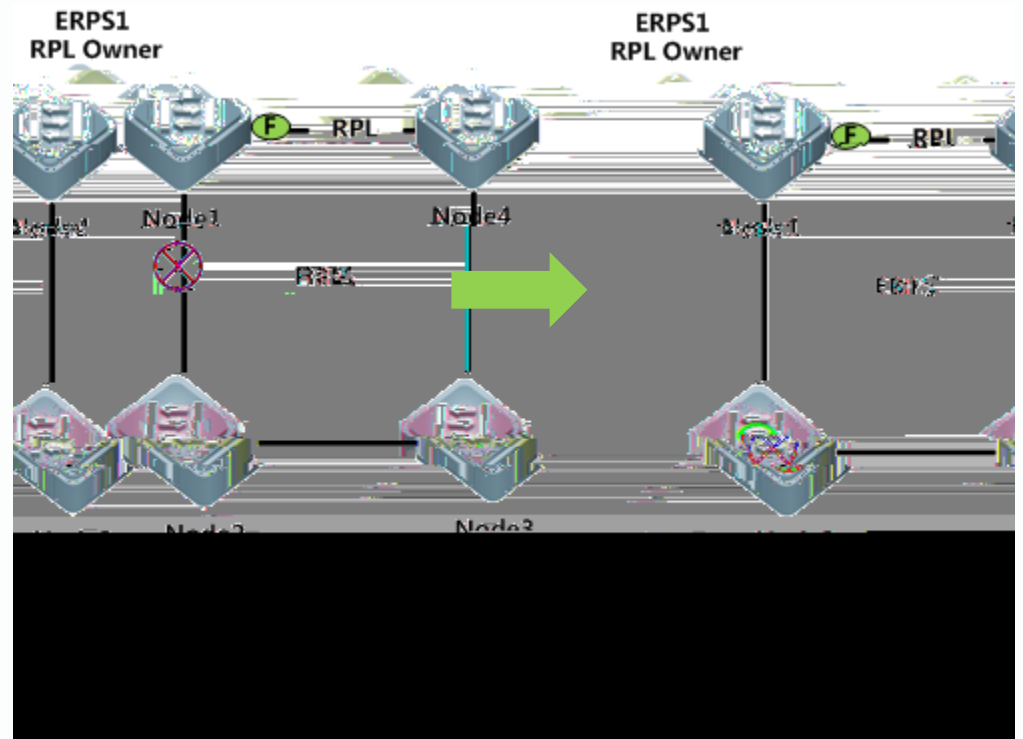


(ERPS)

2

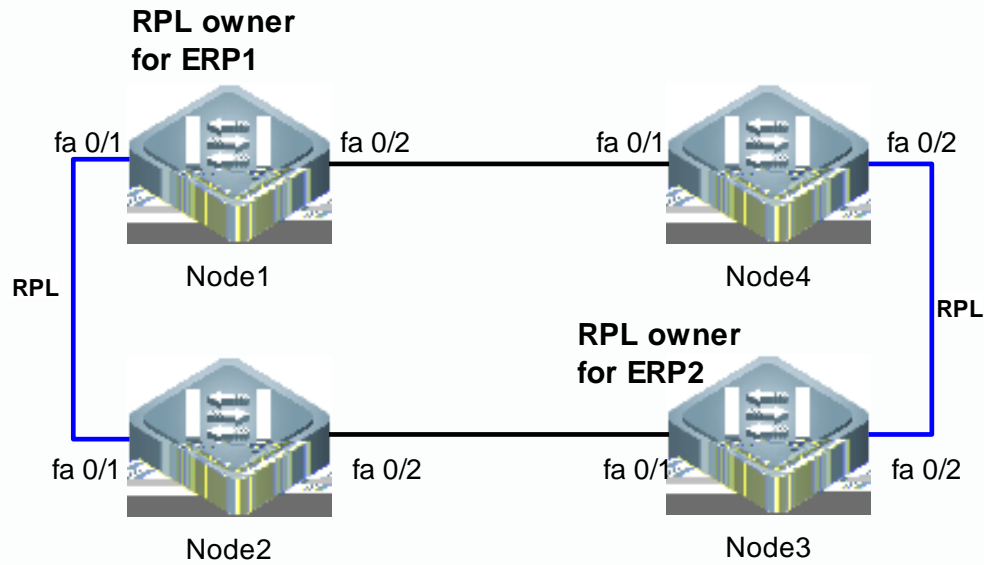


ERPS  
TCP



RPL Owner

# (ERPS)



VLAN

VLAN

VLAN

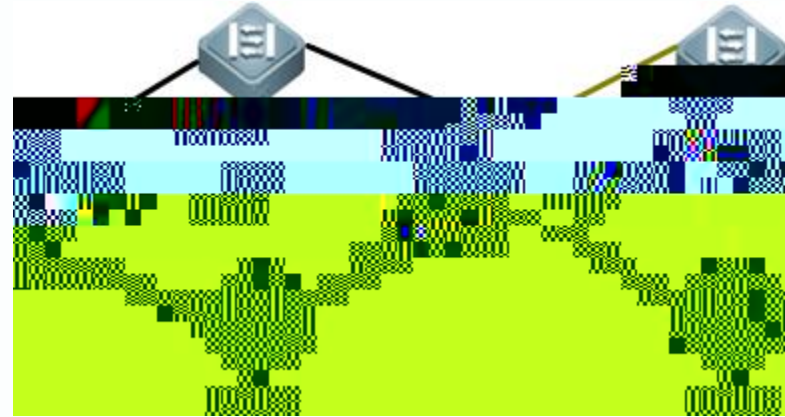
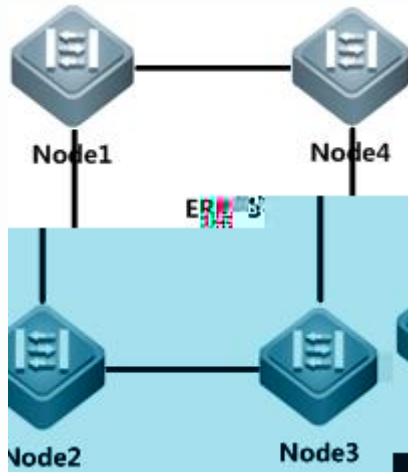


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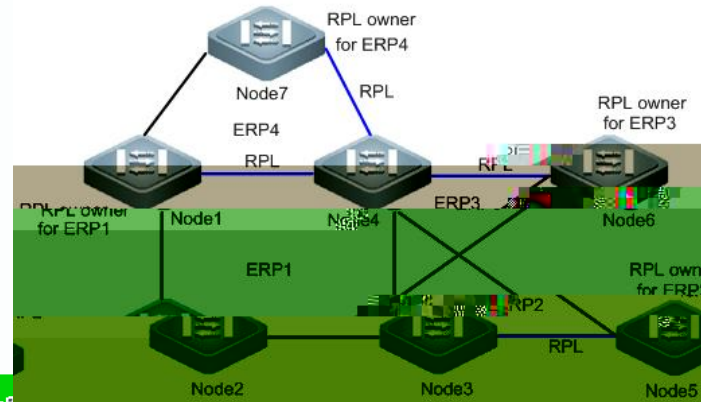
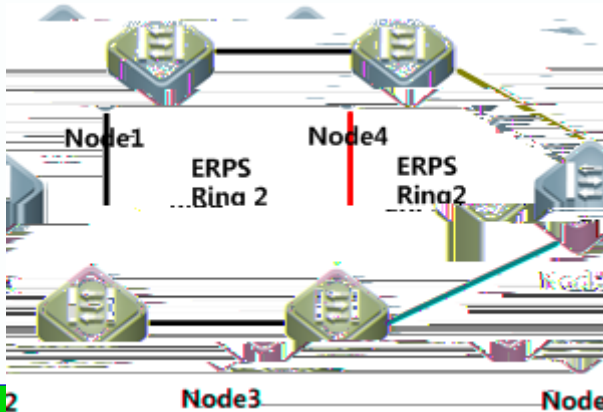


# (ERPS)

ERPS



1



# (ERPS)

## ERPS

RPL owner

RPL

RPL

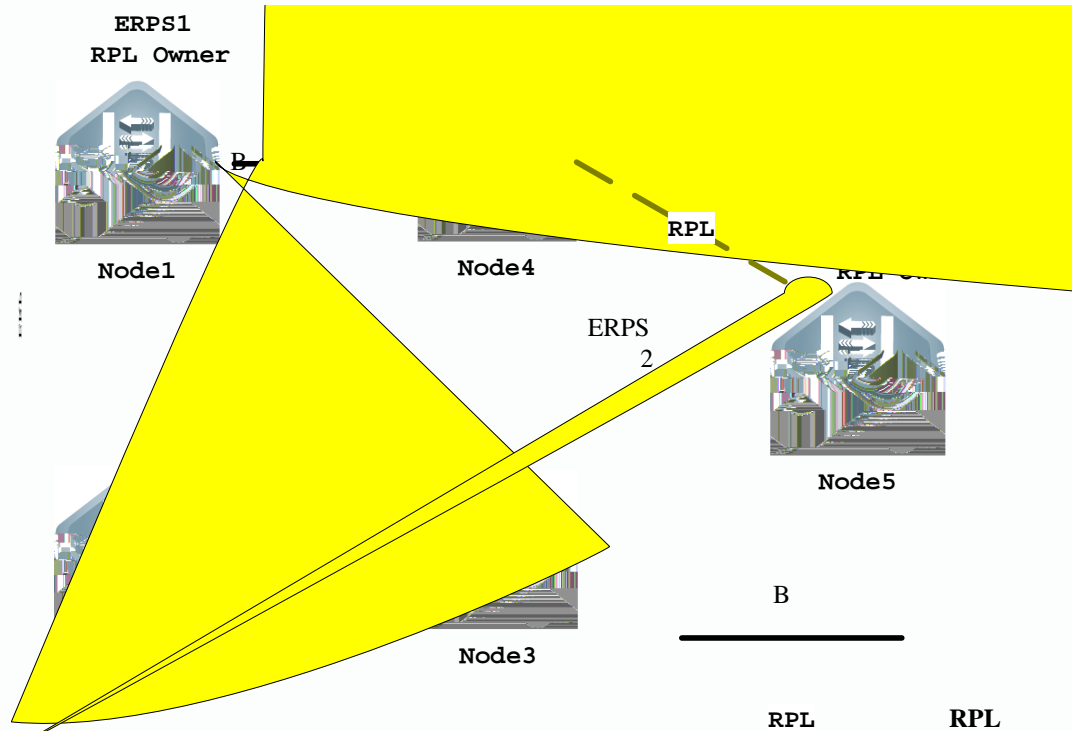
ERP

RPL owner

RPL owner

RPL owner

RPL owner



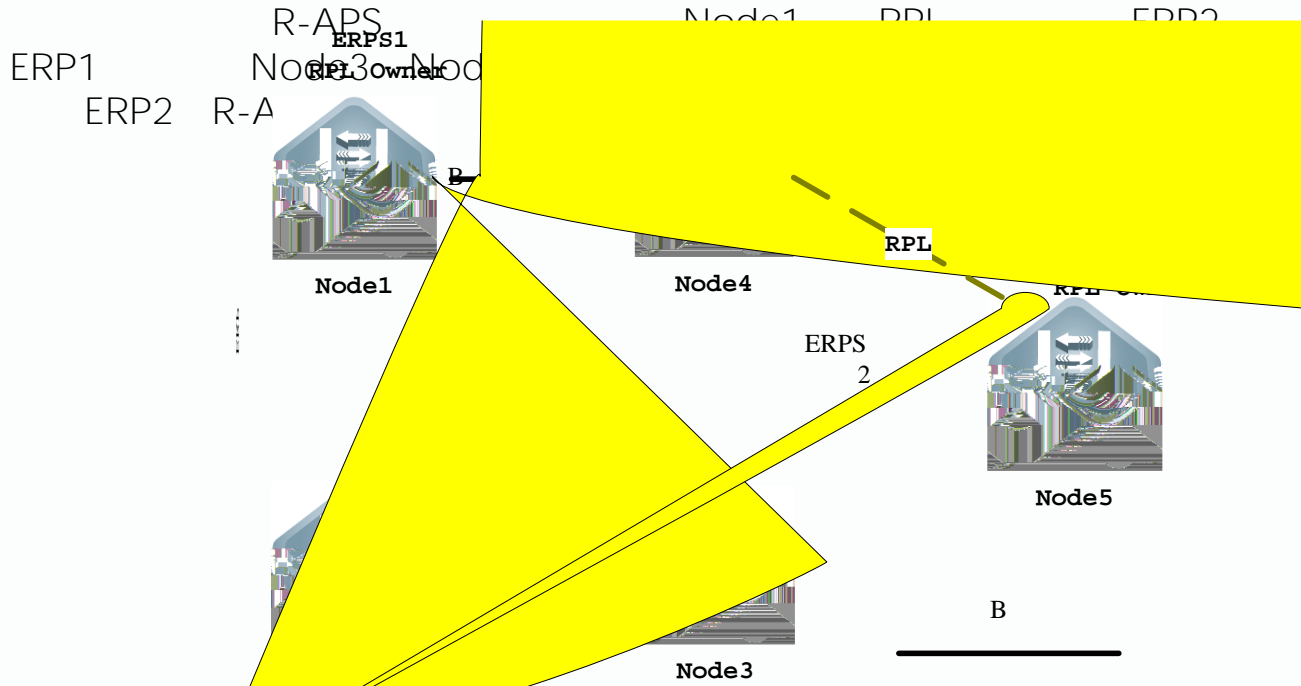
# (ERPS)

## ERPS

RPL( ) RPL Idle RPL

ERP2 Node4 Node5 Node3 Node5 ERP1  
ERP1 Node3 Node4 ERP2  
ERP2 ERP2 ERP1

R-APS virtual channel





# (ERPS)

ERPS

---

Switch1 Switch2 Switch3

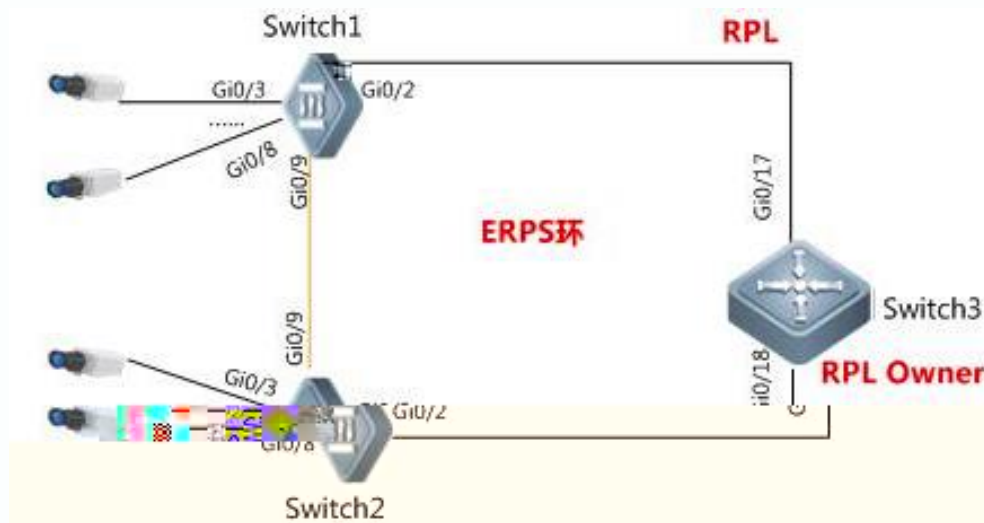
R-APS VLAN ID

RPL owner

Switch3 RPL Owner

Switch2 Switch3

RPL



# (ERPS)

ERPS

---

IS2700\_1 IS2700\_2 Switch3

ERPS IS2700\_3 IS2700\_4

Switch3

ERPS

ERPS

ERPS

R-APS VLAN

R-Aps vlan id

RPL Owner

Switch3

RPL owner

Switch3

IS2700\_1

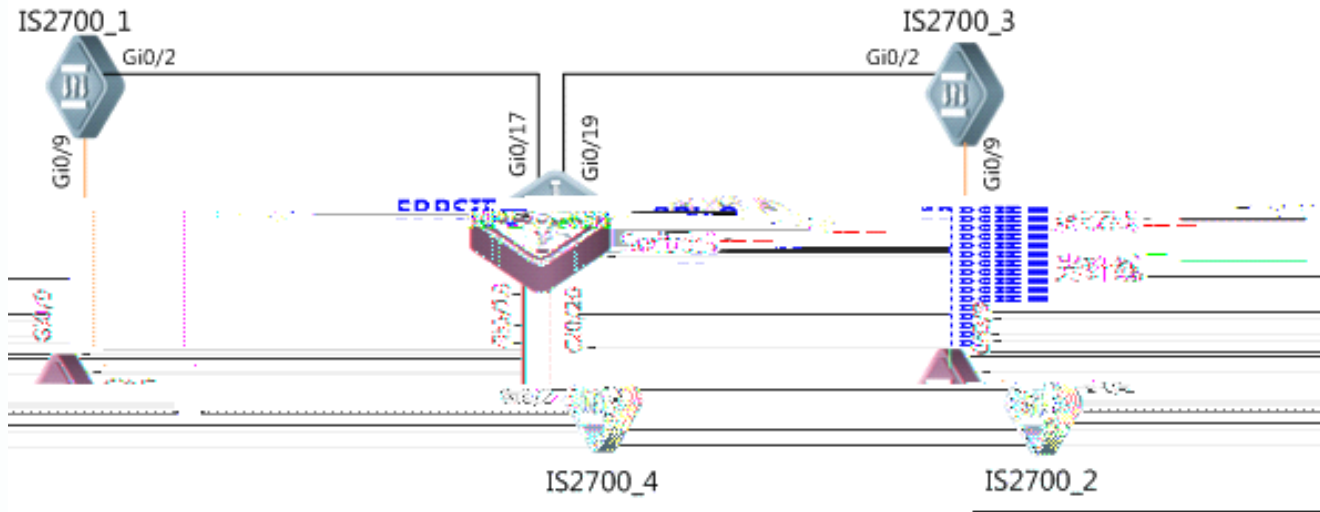
ERPS

RPL Switch3

IS2700\_3

ERPS

RPL



# (ERPS)

ERPS

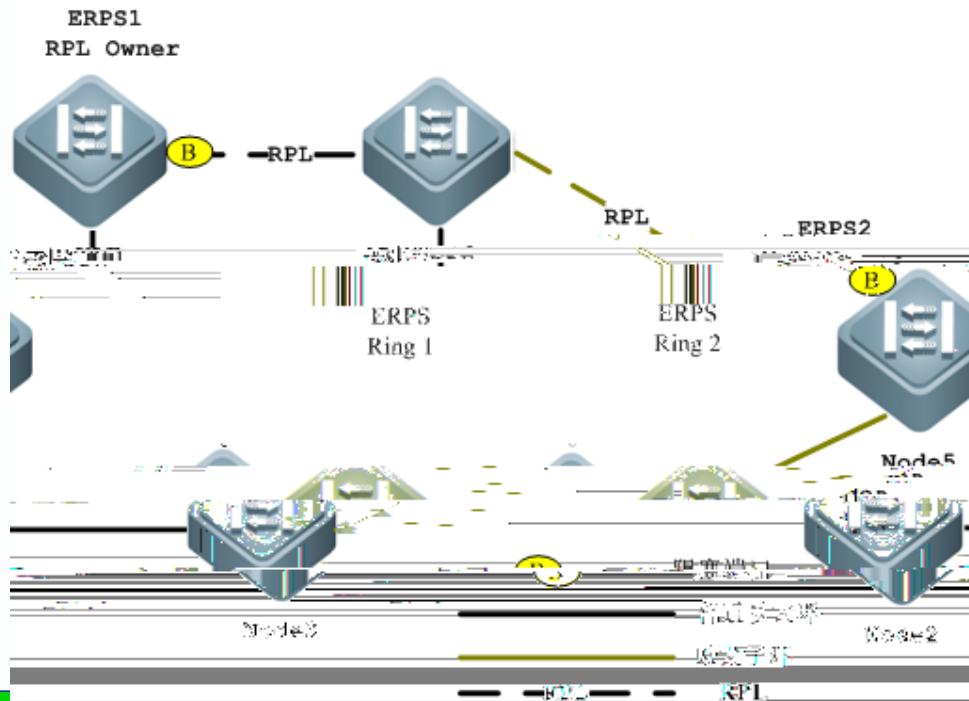
Node1 Node2 Node3 Node4  
Node5 ERP2

ERPS 1 Node3 Node4

R-APS VLAN ERP1 R-APS VLAN 4093 ERP2 R-APS VLAN 100

RPL Owner Node1 RPL owner Node1 Node4 ERP1

RPL Node5 RPL owner Node4 Node5 ERP2 RPL





(ERPS)

ERPS

---

Switch1



(ERPS)

ERPS

---

CLI

R-APS VLAN

RLDP

# (ERPS)

ERPS

---

CLI



RPL Owner Switch3

```
Ruijie# configure terminal
Ruijie(config)# erps raps-vlan 4001
Ruijie(config)#int gigabitEthernet 0/17
Ruijie(config-if-GigabitEthernet 0/17)# switchport mode trunk
Ruijie(config-if-GigabitEthernet 0/17)#rldp port bidirection-detect shutdown-port
Ruijie(config)#int gigabitEthernet 0/18
Ruijie(config-if-GigabitEthernet 0/18)# switchport mode trunk
Ruijie(config-if-GigabitEthernet 0/18)#rldp port bidirection-detect shutdown-port
Ruijie# configure terminal
Ruijie(config)#rldp enable
Ruijie(config)#errdisable recovery interval 30
Ruijie(config)# erps raps-vlan 4001
Ruijie(config-erps 4001)#ring-port west gigabitEthernet 0/17 east gigabitEthernet 0/18
Ruijie(config-erps 4001)#rpl-port east rpl-owner
Ruijie(config)# erps raps-vlan 4001
Ruijie(config-erps 4001)# state enable
Ruijie(config)# erps enable
```

R-APS VLAN VLAN ID 4001

RLDP

RPL-Owner

ERPS ERPS

# (ERPS)

ERPS

---

WEB



RPL Owner WEB

### 以太环配置

Erps ID(2-4094): 4001 \*

请选择Erps环端口：（只能选择两个端口）

2 4 6

1 3 5

提示：可按住左键拖拽选取多个端口。

可选端口 不可选端口 选中端口 聚合端口

注意：一个环网只需配置一个阻塞端口！

高级配置

添加阻塞 取消

# (ERPS)

ERPS

---



ERPS

```
Switch1#show erps
ERPS Information
Global Status
Link monitored by
```

```
Switch3#sho erps
ERPS Information
Global Status      : Enabled
Link monitored by  : Not Oam
```

```
erps raps-vlan 4001
ERPS Information
Global Status      : Enabled
Link monitored by  : Not Oam
```

```
-----
R-APS VLAN
Ring Status
West Port
East Port
RPL Port
Protected VLANs
RPL Owner
Holdoff Time
Guard Time
WTR Time
Current Ring State
```

```
-----
R-APS VLAN      : 4001
Ring Status     : Enabled
West Port       : Gi0/17 (Forwarding)
East Port       : Gi0/18 (Blocking)
RPL Port        : East Port
Protected VLANs : ALL
RPL Owner       : Enabled
Holdoff Time    : 0 milliseconds
Guard Time     : 500 milliseconds
WTR Time       : 5 minutes
Current Ring State : idle
```

```
-----
R-APS VLAN      : 4001
Ring Status     : Enabled
West Port       : Gi0/2 (Forwarding)
East Port       : Gi0/9 (Forwarding)
RPL Port        : None
Protected VLANs : ALL
RPL Owner       : Disabled
Holdoff Time    : 0 milliseconds
Guard Time     : 500 milliseconds
WTR Time       : 2 minutes
Current Ring State : idle
```

# (ERPS)

ERPS

---

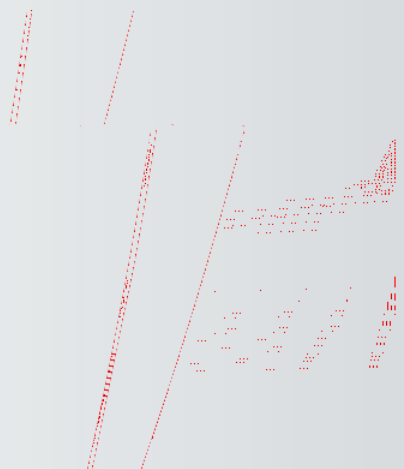
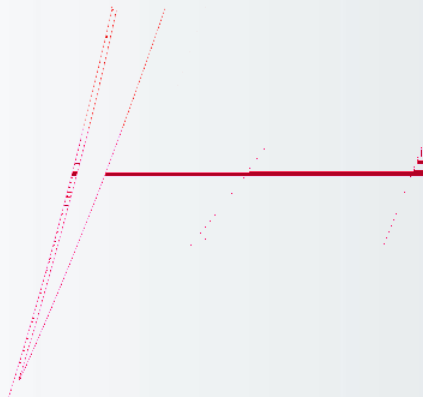


```
1 shutdown erps
2 erps ERPS trunk
3 ERPS R-APS VLAN R-APS VLAN
4 ERPS RPL Owner Owner ERPS
   protection
5 ERPS ERPS
6 shutdown erps
7 ERPS ERPS RLDP RLDP
shutdown
```

# Contents

SmartWeb

ERPS



# | SmartWeb

SmartWeb

IS2700G

CLI

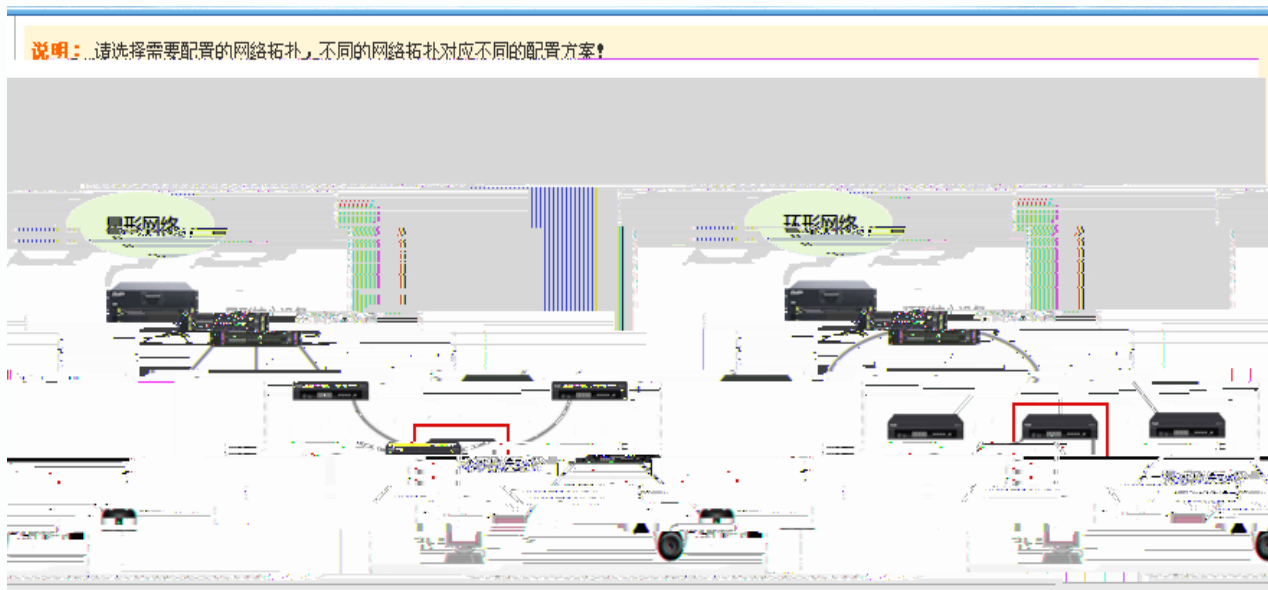
SmartWeb

/ VLAN / /

SNMP

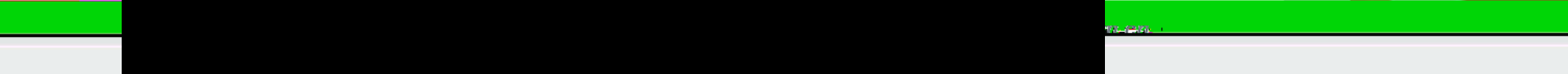
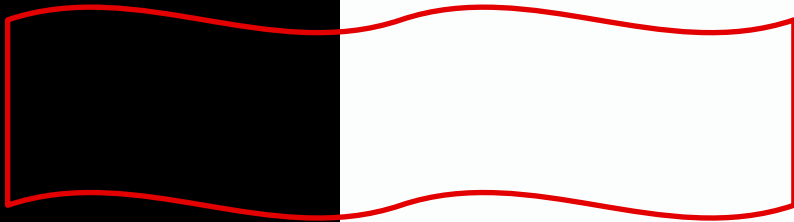
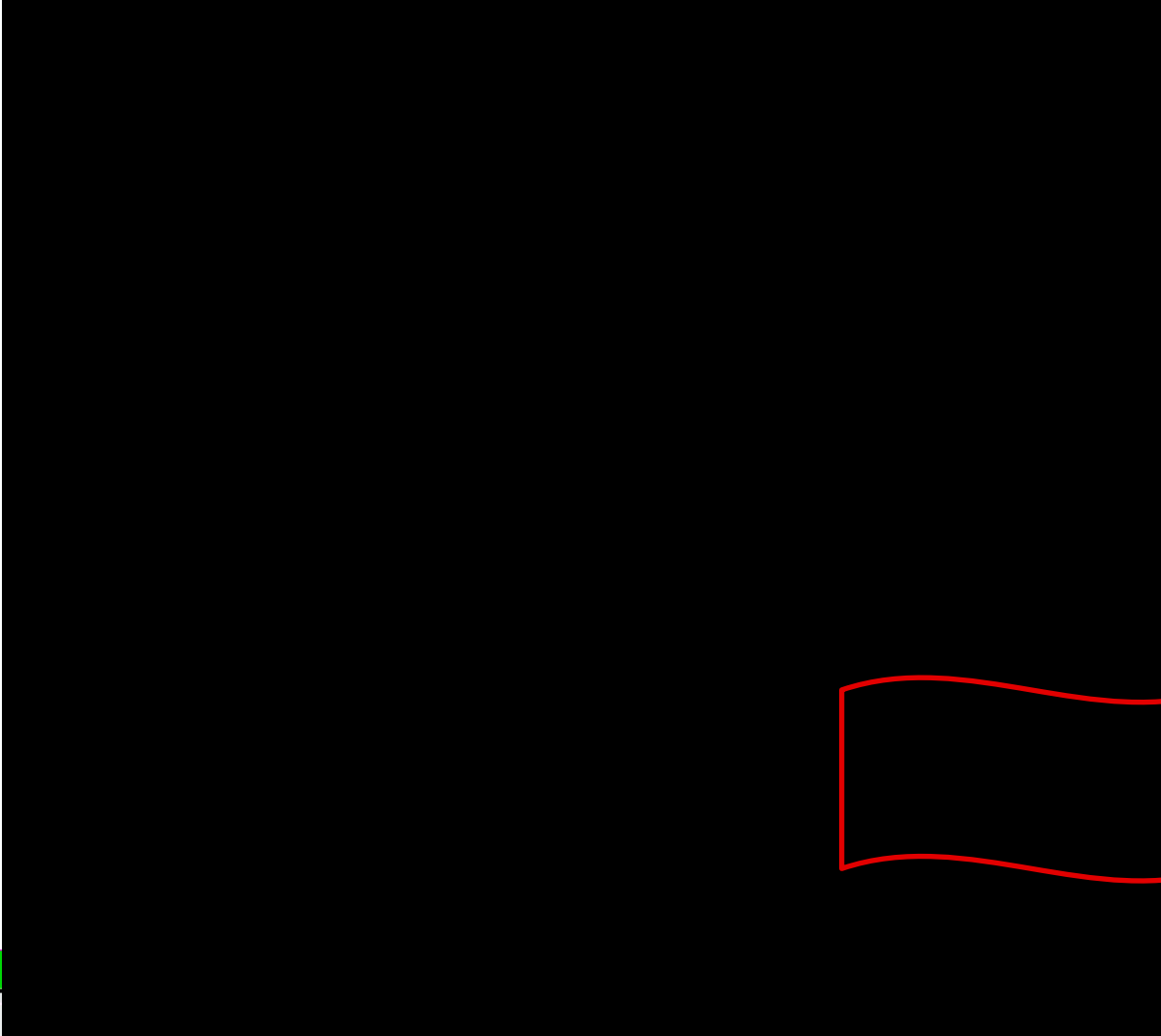
SmartWeb

# SmartWeb —



- 1 PC IP 192.168.1.0/24 PC IS2700G  
gi0/1
- 2 PC <http://192.168.1.200> SmartWeb  
admin/admin
- 3 SmartWeb
- 4

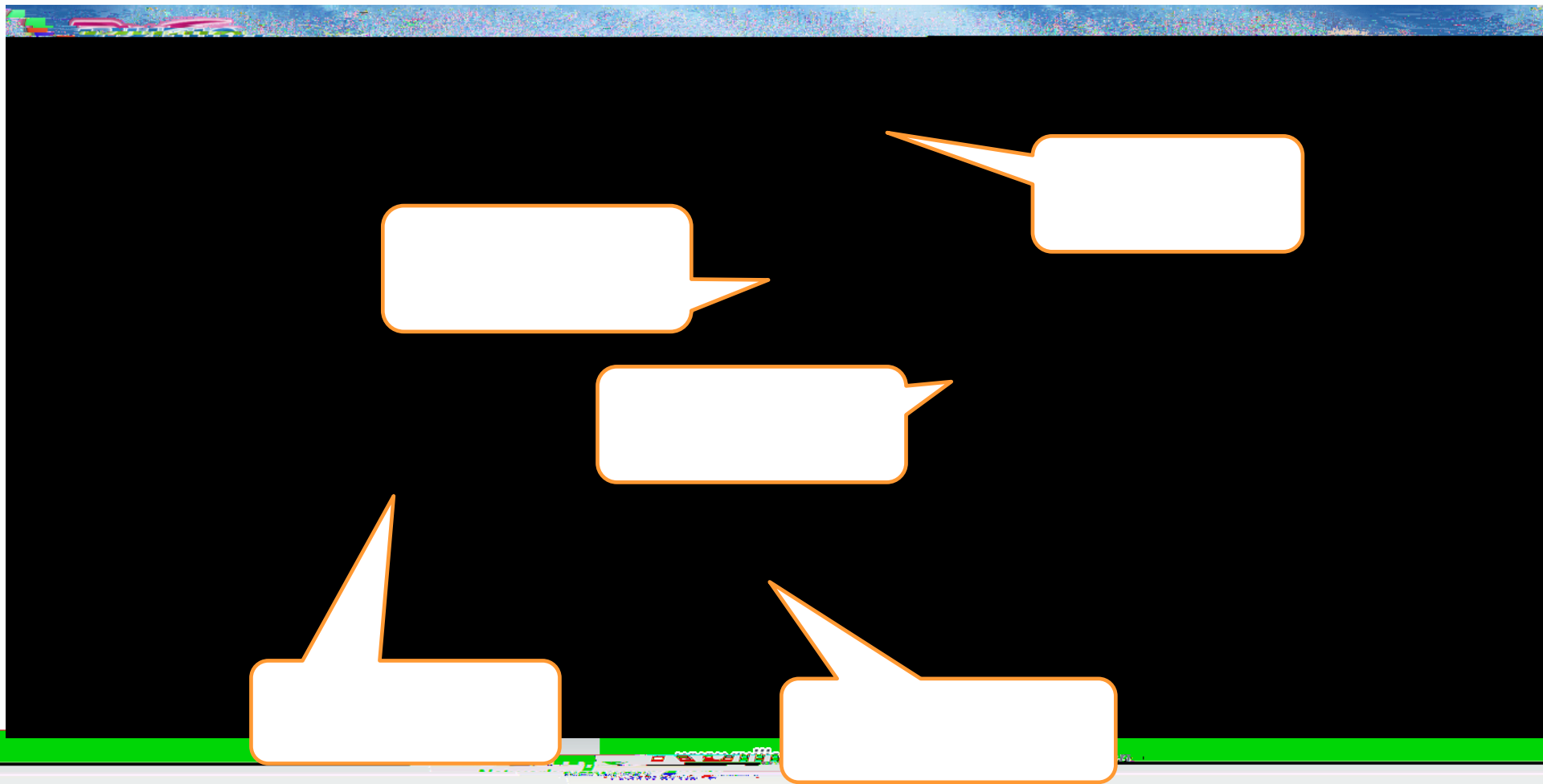
SmartWeb -----



| SmartWeb -----

SmartWeb

CPU/



| SmartWeb -----

admin

guest



- [www.ruijie.com.cn](http://www.ruijie.com.cn)

- [www.ruijie.com.cn/service.aspx](http://www.ruijie.com.cn/service.aspx)

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