

ERPS SNR

- ERPS
-
- ERPS + CFM

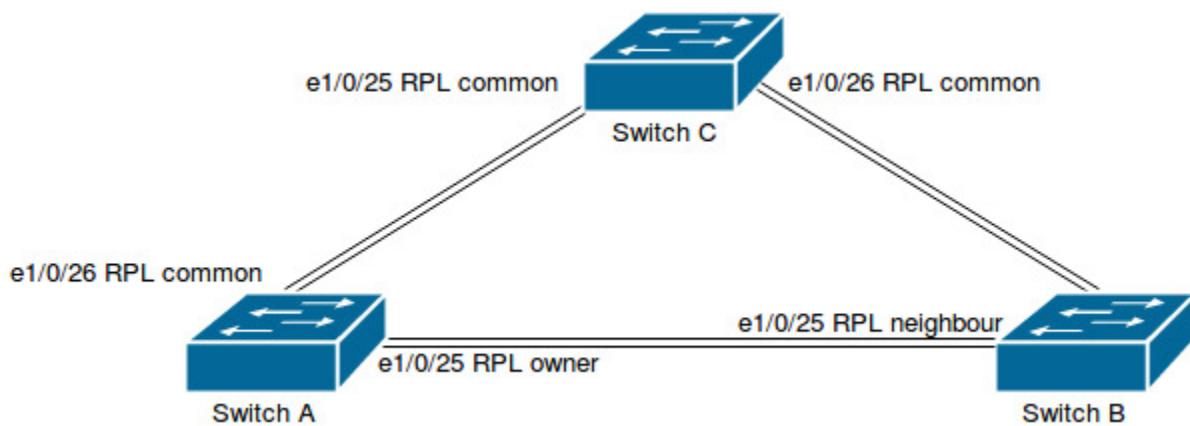
ERPS - , OSI,

R-APS VLAN, ERPS. VLAN, , MST- Protected VLAN. 1 3 : RPL Owner, RPL Neighbour RPL Common. RPL Owner Neighbour

ERPS , SNR.

ERPS

ERPS , , , VLAN 2, VLAN 3, VLAN 4,



Switch A.

C VLAN:

```
!
vlan 1-4
!
```

MST, ERPS:

```
!
spanning-tree mst configuration
instance 0 vlan 5-4094
instance 1 vlan 1-4
exit
!
```

ERPS- test_ring1 ERPS- 1, Protected MST Instance, Control VLAN (RPL port0 Owner, port1 — Common):

```
!
erps-ring test_ring1
erps-instance 1
  rpl port0 owner
  protected-instance 1
  control-vlan 2
  exit
!
```

Trunk ERPS :

```
!
Interface Ethernet1/0/25
  switchport mode trunk
  erps-ring test_ring1 port0
!
Interface Ethernet1/0/26
  switchport mode trunk
  erps-ring test_ring1 port1
!
```

/ ():

```
!
port-scan-mode interrupt
!
```

Switch A .

Switch B Switch A, port0. RPL Owner, port0 RPL Neighbour:

```
!
port-scan-mode interrupt
!
vlan 1-4
!
spanning-tree mst configuration
  instance 0 vlan 5-4094
  instance 1 vlan 1-4
  exit
!
erps-ring test_ring1
erps-instance 1
  rpl port0 neighbour
  protected-instance 1
  control-vlan 2
  exit
!
Interface Ethernet1/0/25
  switchport mode trunk
  erps-ring test_ring1 port0
!
Interface Ethernet1/0/26
  switchport mode trunk
  erps-ring test_ring1 port1
!
```

Switch C Switch A Switch B, , Switch C port0 port1 ,.. RPL Common:

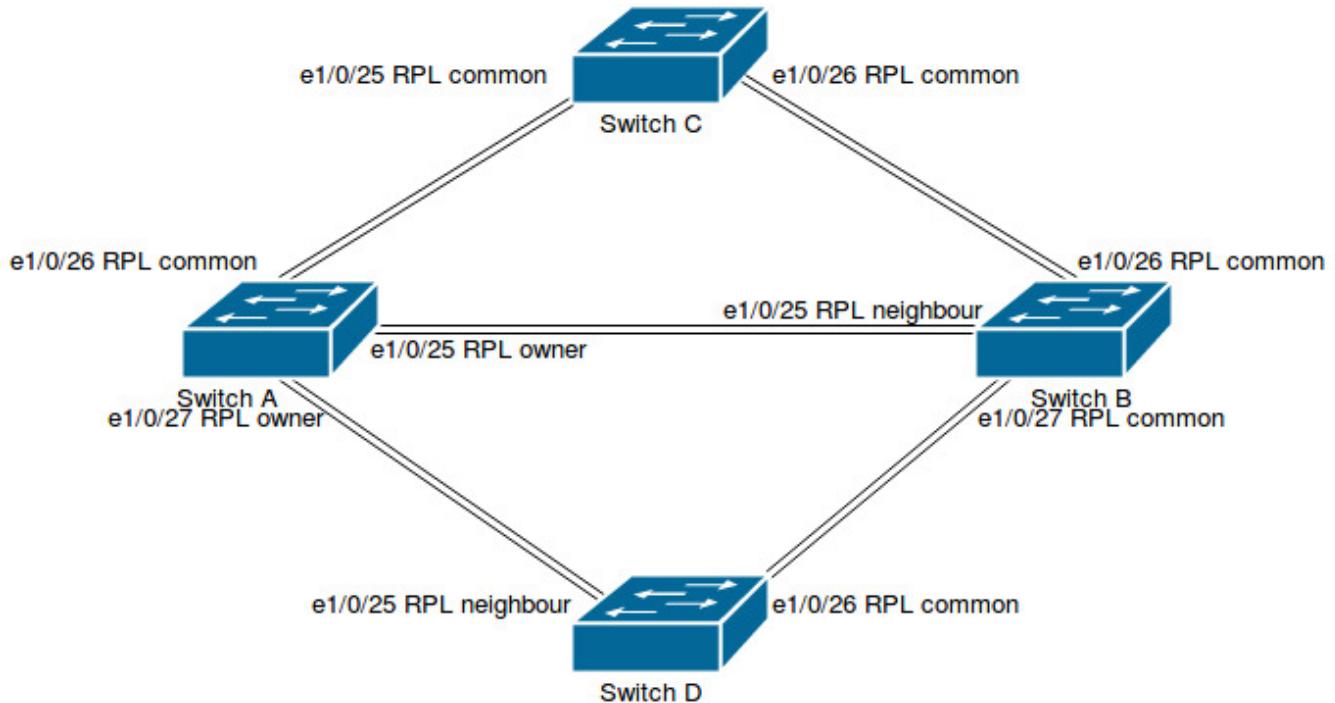
```

!
port-scan-mode interrupt
!
vlan 1-4
!
spanning-tree mst configuration
  instance 0 vlan 5-4094
  instance 1 vlan 1-4
  exit
!
erps-ring test_ring1
  erps-instance 1
    protected-instance 1
    control-vlan 2
    exit
!
Interface Ethernet1/0/25
  switchport mode trunk
  erps-ring test_ring1 port0
!
Interface Ethernet1/0/26
  switchport mode trunk
  erps-ring test_ring1 port1
!

```

Switch D Switch A Switch B, (major-ring), , Switch A - Switch B - Switch D, Switch A - Switch B Switch A - Switch B - Switch C ERPS.

(sub-ring), (major-ring). Switch A Switch B , . , VLAN 4.



Switch A.

ERPS-,, open-ring:

```
!
erps-ring test_ring1
erps-instance 1
  rpl port0 owner
  protected-instance 1
  control-vlan 2
  exit
erps-ring test_ring2
open-ring
raps-virtual-channel with
erps-instance 1
  rpl port0 owner
  protected-instance 1
  control-vlan 4
  exit
!
```

ERPS :

```
!
ethernet tcn-propagation erps to erps
!
```

1/0/27, test_ring2 . 1/0/25-26 :

```
!
Interface Ethernet1/0/27
  switchport mode trunk
  erps-ring test_ring2 port0 port1-none
!
```

Switch B.

Switch B Switch A, , RPL port0 , .. port0 RPL Common, port1 :

```
!
erps-ring test_ring1
erps-instance 1
  protected-instance 1
  control-vlan 2
  exit
erps-ring test_ring2
open-ring
raps-virtual-channel with
erps-instance 1
  protected-instance 1
  control-vlan 4
  exit
!
ethernet tcn-propagation erps to erps
!
Interface Ethernet1/0/27
  switchport mode trunk
  erps-ring test_ring2 port0 port1-none
!
```

Switch D:

Switch D Switch C , test_ring2 open-ring, Control VLAN 4:

```

!
port-scan-mode interrupt
!
vlan 1-4
!
spanning-tree mst configuration
  instance 0 vlan 5-4094
  instance 1 vlan 1-4
  exit
!
erps-ring test_ring2
  open-ring
  erps-instance 1
  rpl port0 neighbour
  protected-instance 1
  control-vlan 4
  exit
!
Interface Ethernet1/0/25
  switchport mode trunk
  erps-ring test_ring2 port0
!
Interface Ethernet1/0/26
  switchport mode trunk
  erps-ring test_ring2 port1
!

```

ERPS + CFM

... , , ERPS.
 , - CFM (Connectivity Fault Management). ' ' L2 CCM-, . , CCM- ERPS
 .
 , CFM ERPS Switch A B (1/0/1). :

Switch A:

```

!
ethernet cfm global
ethernet cfm domain test level 2
  service test pvid 77 direction down
    mep mepid 100;200
    continuity-check enable
    continuity-check receive rmep 200
  exit
!
erps-ring test
  port1 failure-detect physical-link-or-cc domain test service test mep 100 rmep 200
    erps-instance 1
    protected-instance 1
    control-vlan 77
  exit
!
Interface Ethernet1/0/1
  ethernet cfm mep 100 domain test service test
  switchport mode trunk
  erps-ring test port1
!
```

Switch B:

```
!
 ethernet cfm global
 ethernet cfm domain test level 2
   service test pvlan 77 direction down
     mep mepid 100;200
     continuity-check enable
     continuity-check receive rmep 100
   exit
!
 erps-ring test
 port0 failure-detect physical-link-or-cc domain test service test mep 200 rmep 100
   erps-instance 1
     protected-instance 1
     control-vlan 77
   exit
!
Interface Ethernet1/0/1
  ethernet cfm mep 200 domain test service test
  switchport mode trunk
  erps-ring test port0
!
```