

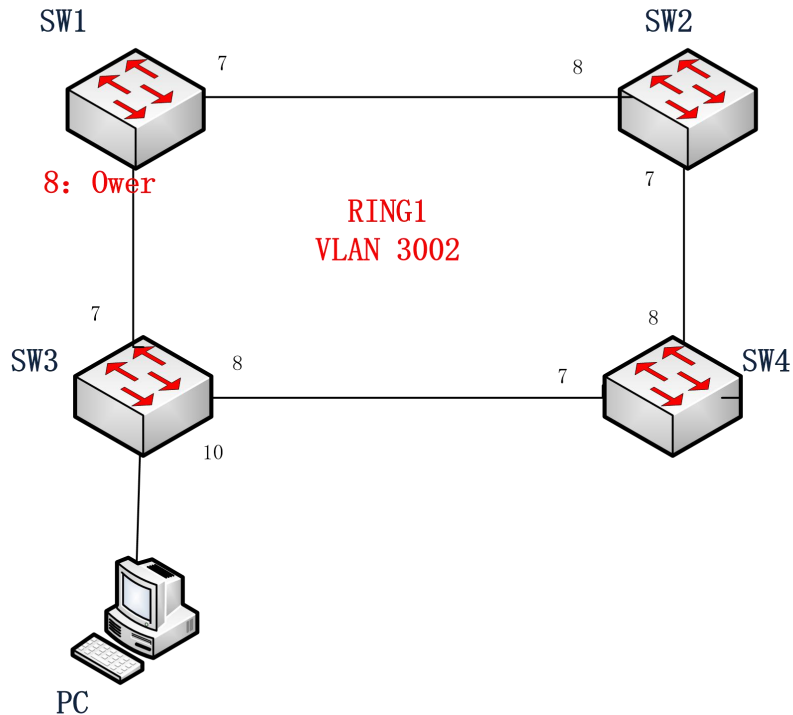
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Date: 2018/1/26

A. Single-Ring Configuration

1. Form SW1 - SW4 to a single ring through ERPS, Users can ping SW1-SW4 in PC, also can ping them if Ring is disconnected.



2. Set the IP of SW1-SW4 as (192.168.2.1) - (192.168.2.4), and set the port to trunk port, which is used to connect with the ring.

- Information & Status
- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
 - IP**
 - NTP
 - Timezone
 - SNMP
 - SysLog
- Port Configure
- PoE
- Advanced Configure
- Security Configure
- QoS Configure
- Diagnostics
- Maintenance

IP Configuration

| | |
|--------------|--------------------------|
| Mode | Host |
| DNS Server 0 | No DNS server |
| DNS Server 1 | No DNS server |
| DNS Server 2 | No DNS server |
| DNS Server 3 | No DNS server |
| DNS Proxy | <input type="checkbox"/> |

IP Interfaces

| Delete | VLAN | DHCPv4 | | | IPv4 | | | DHCPv6 | | | IPv6 | |
|--------------------------|------|--------------------------|----------|---------------|-------------|-------------|--------------------------|--------------------------|---------------|---------|-------------|--|
| | | Enable | Fallback | Current Lease | Address | Mask Length | Enable | Rapid Commit | Current Lease | Address | Mask Length | |
| <input type="checkbox"/> | 1 | <input type="checkbox"/> | 0 | | 192.168.2.2 | 24 | <input type="checkbox"/> | <input type="checkbox"/> | | | | |

Add Interface

IP Routes

| Delete | Network | Mask Length | Gateway | Next Hop VLAN |
|--------------------------|---------|-------------|---------|---------------|
| <input type="checkbox"/> | | | | |

Add Route

Save Reset

Global VLAN Configuration

Allowed Access VLANs: 1
 Ethertype for Custom S-ports: 88A8

Port VLAN Configuration

| Port | Mode | Port VLAN | Port Type | Ingress Filtering | Ingress Acceptance | Egress Tagging | Allowed VLANs | Forbidden VLANs |
|------|--------|-----------|-----------|-------------------------------------|---------------------|-----------------|---------------|-----------------|
| 1 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 2 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 3 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 4 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 5 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 6 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 7 | Trunk | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag Port VLAN | 1-4095 | |
| 8 | Trunk | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag Port VLAN | 1-4095 | |
| 9 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 10 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |

3. Set SW1 as Ring1, the type is Major, and set control VLAN as 3002. Enable APS Protocol in MEP, the type is R-APS. And set Port 7 as the East port, Port 8 as the West port. Port 8 is as the owner.

Maintenance Entity Point

| Delete | Instance | Domain | Mode | Direction | Residence Port | Level | Flow Instance | Tagged VID | This MAC | Alarm |
|--------------------------|----------|--------|------|-----------|----------------|-------|---------------|------------|-------------------|-------------------------------------|
| <input type="checkbox"/> | 7 | Port | Mep | Down | 7 | 0 | | 3002 | 9A-86-03-3B-69-08 | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | 8 | Port | Mep | Down | 8 | 0 | | 3002 | 9A-86-03-3B-69-09 | <input checked="" type="checkbox"/> |

↓ vlan

MEP Configuration

Instance Data

| Instance | Domain | Mode | Direction | Residence Port | Flow Instance | Tagged VID | EPS Instance | This MAC |
|----------|--------|------|-----------|----------------|---------------|------------|--------------|-------------------|
| 9 | Port | Mep | Down | 9 | | 3003 | 2 | 9A-86-03-3B-58-0A |

Instance Configuration

| Level | Format | Domain Name | MEG id | MEP id | Tagged VID | Syslog | cLevel | cMEG | cMEP | cAIS | cLCK | cLoop | cConfig |
|-------|---------|-------------|----------------|--------|------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 0 | ITU ICC | | ICCC000MEG0000 | 1 | 3003 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Peer MEP Configuration

| Delete | Peer MEP ID | Unicast Peer MAC | cLOC | cRDI | cPeriod | cPriority | cDEG |
|-------------------|-------------|------------------|------|------|---------|-----------|------|
| No Peer MEP Added | | | | | | | |

Functional Configuration

| Continuity Check | | | | APS Protocol | | | | |
|--------------------------|----------|------------|--------------------------|-------------------------------------|----------|-------|-------|------------|
| Enable | Priority | Frame rate | TLV | Enable | Priority | Cast | Type | Last Octet |
| <input type="checkbox"/> | 0 | 1 f/sec | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0 | Multi | R-APS | 1 |

TLV Configuration

| Organization Specific TLV (Global) | | | | |
|------------------------------------|------------|-----------|----------|-------|
| OUI First | OUI Second | OUI Third | Sub-Type | Value |
| 0 | 0 | 12 | 1 | 2 |

TLV Status

| Peer MEP ID | CC Organization Specific | | | | | CC Port Status | | CC Interface Status | | |
|-------------------|--------------------------|------------|-----------|----------|-------|----------------|-------|---------------------|-------|---------|
| | OUI First | OUI Second | OUI Third | Sub-Type | Value | Last RX | Value | Last RX | Value | Last RX |
| No Peer MEP Added | | | | | | | | | | |

Link State Tracking

Enable

Save Reset

Information & Status

- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
- Port Configure
- PoE
- Advanced Configure
 - MAC Table
 - Ethernet Services
 - VLANs
 - Port Isolation
 - Loop Protection
 - Spanning Tree
 - IPMC Profile
 - MEP
 - ERPS**
 - IGMP Snooping
 - IPv6 MLD Snooping
 - LLDP
- Security Configure
- QoS Configure
- Diagnostics
- Maintenance

Ethernet Rapid Ring Protection Switching

| Delete | Ring ID | East Port | West Port | Ring Type | Interconnected Node | Major RRing ID | Alarm |
|--------------------------|---------|-----------|-----------|-----------|---------------------|----------------|--------------------------------------|
| <input type="checkbox"/> | 1 | 7 | 8 | Major | No | 1 | ● |

Information & Status

- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
- Port Configure
- PoE
- Advanced Configure
 - MAC Table
 - Ethernet Services
 - VLANs
 - Port Isolation
 - Loop Protection
 - Spanning Tree
 - IPMC Profile
 - MEP
 - ERPS**
 - IGMP Snooping
 - IPv6 MLD Snooping
 - LLDP
- Security Configure
- QoS Configure
- Diagnostics
- Maintenance

Rapid Ring Configuration 1

Auto-refresh

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring Type |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|------------|
| 1 | 7 | 8 | 7 | 8 | 7 | 8 | Major Ring |

Instance Configuration

| Configured | WTR(Wait to Restore) Time | Revertive | VLAN config |
|--------------------------------------|---------------------------|-------------------------------------|-------------|
| ● | 1min | <input checked="" type="checkbox"/> | VLAN Config |

RPL Configuration

| RPL Role | RPL Port | Clear |
|-----------|-----------|--------------------------|
| RPL_Owner | West Port | <input type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive APS | West Port Receive APS | WTR Remaining | RPL Un-blocked | No APS Received | East Port Block Status | West Port Block Status | FOP Alarm |
|------------------|-----------|-----------|--------------|---------------------------------|---------------------------------|---------------|--------------------------------------|--------------------------------------|------------------------|------------------------|--------------------------------------|
| Idle | OK | OK | NR RB BPR1 | NR RB BPR1 9A-86-03-3B-69-08 | NR RB BPR1 9A-86-03-3B-69-08 | 0 | ● | ● | Unblocked | Blocked | ● |

4. Set SW2-SW4 as Ring1, the type is Major, and set control VLAN as 3002. Enable APS Protocol in MEP, the type is R-APS. And set Port 7 as the East port, Port 8 as the West port. Different in the configuration of Port 8 in SW1, **no need to** set the port 8 of SW2-SW4 as the Owner.

Information & Status

- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
- Port Configure
- PoE
- Advanced Configure
 - MAC Table
 - Ethernet Services
 - VLANs
 - Port Isolation
 - Loop Protection
 - Spanning Tree
 - IPMC Profile
 - MEP
 - ERPS**
 - IGMP Snooping
 - IPv6 MLD Snooping
 - LLDP
- Security Configure
- QoS Configure
- Diagnostics
- Maintenance

Rapid Ring Configuration 1

Auto-refre

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|-------|
| 1 | 7 | 8 | 7 | 8 | 7 | 8 | Major |

Instance Configuration

| Configured | WTR(Wait to Restore) Time | Revertive | VLAN config |
|--------------------------------------|---------------------------|-------------------------------------|-------------|
| ● | 1min | <input checked="" type="checkbox"/> | VLAN Config |

RPL Configuration

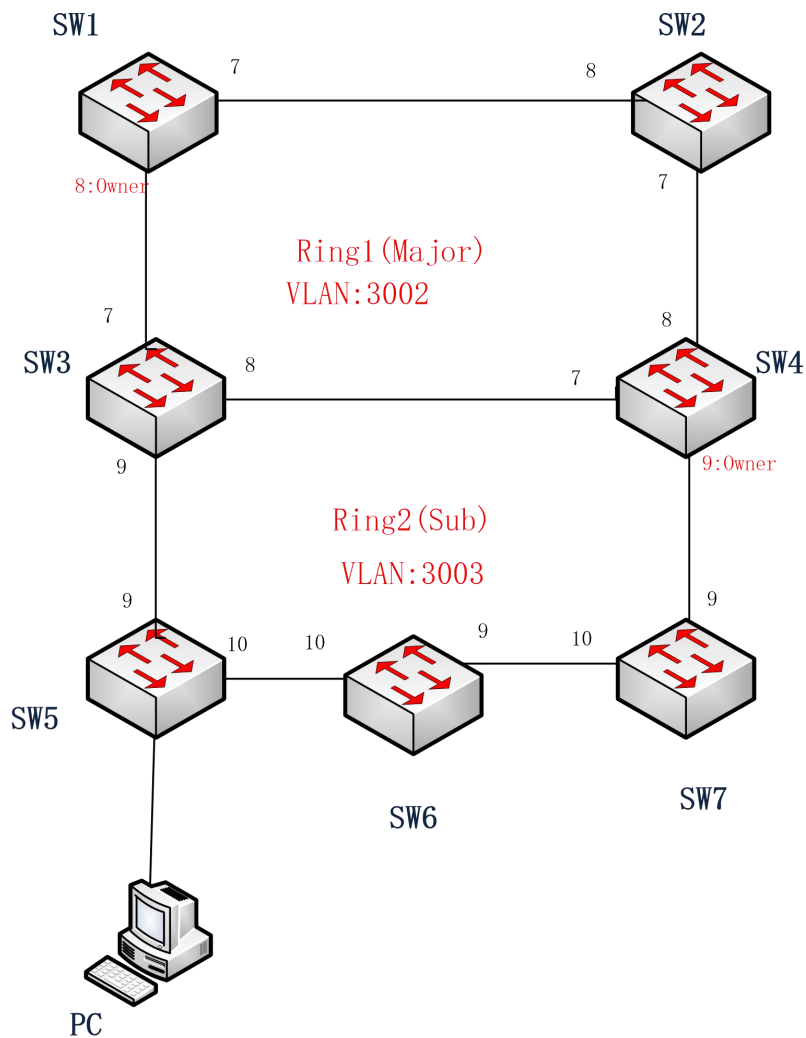
| RPL Role | RPL Port | Clear |
|----------|----------|--------------------------|
| None | None | <input type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive APS | West Port Receive APS | WTR Remaining | RPL Un-blocked | No APS Received | East Port Block Status | West Port Block Status | FOP Alarm |
|------------------|-----------|-----------|--------------|---------------------------------|---------------------------------|---------------|--------------------------------------|--------------------------------------|------------------------|------------------------|--------------------------------------|
| Idle | OK | OK | NR RB BPR1 | NR RB BPR1 9A-86-03-3B-69-08 | NR RB BPR1 9A-86-03-3B-69-08 | 0 | ● | ● | Unblocked | Blocked | ● |

B. Coupling-ring Configuration

1. Form SW1 - SW7 to a coupling ring through ERPS, Users can ping SW1-SW7 in PC, also can ping them if Ring is disconnected.



2. Set the IP of SW1-SW7 as (192.168.2.1) - (192.168.2.7), and set the port to trunk port, which is used to connect with the ring.

IP Configuration

Mode: Host

DNS Server 0: No DNS server

DNS Server 1: No DNS server

DNS Server 2: No DNS server

DNS Server 3: No DNS server

DNS Proxy:

IP Interfaces

| Delete | VLAN | DHCPv4 | | | IPv4 | | | DHCPv6 | | IPv6 | |
|--------------------------|------|--------------------------|----------|---------------|-------------|-------------|--------------------------|--------------------------|---------------|---------|-------------|
| | | Enable | Fallback | Current Lease | Address | Mask Length | Enable | Rapid Commit | Current Lease | Address | Mask Length |
| <input type="checkbox"/> | 1 | <input type="checkbox"/> | 0 | | 192.168.2.2 | 24 | <input type="checkbox"/> | <input type="checkbox"/> | | | |

Add Interface

IP Routes

| Delete | Network | Mask Length | Gateway | Next Hop VLAN |
|--------------------------|---------|-------------|---------|---------------|
| <input type="checkbox"/> | | | | |

Add Route

Save Reset

Global VLAN Configuration

Allowed Access VLANs: 1

Ethertype for Custom S-ports: 88A8

Port VLAN Configuration

| Port | Mode | Port VLAN | Port Type | Ingress Filtering | Ingress Acceptance | Egress Tagging | Allowed VLANs | Forbidden VLANs |
|------|--------|-----------|-----------|-------------------------------------|---------------------|-----------------|---------------|-----------------|
| * | <> | 1 | <> | <input checked="" type="checkbox"/> | <> | <> | 1 | |
| 1 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 2 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 3 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 4 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 5 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 6 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 7 | Trunk | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag Port VLAN | 1-4095 | |
| 8 | Trunk | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag Port VLAN | 1-4095 | |
| 9 | Trunk | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag Port VLAN | 1-4095 | |
| 10 | Trunk | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag Port VLAN | 1-4095 | |

Save Reset

3. Set SW1 as Ring1, the type is Major, and set control VLAN as 3002. Enable APS Protocol in MEP, the type is R-APS. And set Port 7 as the East port, Port 8 as the West port. Port 8 is as the owner. New added VLAN 3003 to protect Ring1 from message in Ring2.

Maintenance Entity Point

| Delete | Instance | Domain | Mode | Direction | Residence Port | Level | Flow Instance | Tagged VID | This MAC | Alarm |
|--------------------------|----------|--------|------|-----------|----------------|-------|---------------|------------|-------------------|-------------------------------------|
| <input type="checkbox"/> | Z | Port | Mep | Down | 7 | 0 | | 3002 | 9A-86-03-3B-69-08 | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | g | Port | Mep | Down | 8 | 0 | | 3002 | 9A-86-03-3B-69-09 | <input checked="" type="checkbox"/> |

Add New MEP Save Reset

vlan

MEP Configuration Refresh

Instance Data

| Instance | Domain | Mode | Direction | Residence Port | Flow Instance | Tagged VID | EPS Instance | This MAC |
|----------|--------|------|-----------|----------------|---------------|------------|--------------|-------------------|
| 9 | Port | Mep | Down | 9 | | 3003 | 2 | 9A-86-03-3B-58-0A |

Instance Configuration

| Level | Format | Domain Name | MEG id | MEP id | Tagged VID | Syslog | cLevel | cMEG | cMEP | cAIS | cLCK | cLoop | cConfig |
|-------|---------|-------------|---------------|--------|------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 0 | ITU ICC | | IC0000MEG0000 | 1 | 3003 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Peer MEP Configuration

| Delete | Peer MEP ID | Unicast Peer MAC | cLOC | cRDI | cPeriod | cPriority | cDEG |
|-------------------|-------------|------------------|------|------|---------|-----------|------|
| No Peer MEP Added | | | | | | | |

Functional Configuration

| Continuity Check | | | | APS Protocol | | | | |
|--------------------------|----------|------------|--------------------------|-------------------------------------|----------|-------|-------|------------|
| Enable | Priority | Frame rate | TLV | Enable | Priority | Cast | Type | Last Octet |
| <input type="checkbox"/> | 0 | 1 f/sec | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0 | Multi | R-APS | 1 |

TLV Configuration

| Organization Specific TLV (Global) | | | | |
|------------------------------------|------------|-----------|----------|-------|
| OUI First | OUI Second | OUI Third | Sub-Type | Value |
| 0 | 0 | 12 | 1 | 2 |

TLV Status

| Peer MEP ID | CC Organization Specific | | | | | CC Port Status | | CC Interface Status | |
|-------------------|--------------------------|------------|-----------|----------|-------|----------------|-------|---------------------|--|
| | OUI First | OUI Second | OUI Third | Sub-Type | Value | Last RX | Value | Last RX | |
| No Peer MEP Added | | | | | | | | | |

Link State Tracking

Enable

Ethernet Rapid Ring Protection Switching

| Delete | Ring ID | East Port | West Port | Ring Type | Interconnected Node | Major RRing ID | Alarm |
|--------------------------|---------|-----------|-----------|-----------|---------------------|----------------|-------------------------------------|
| <input type="checkbox"/> | 1 | 7 | 8 | Major | No | 1 | <input checked="" type="checkbox"/> |

Rapid Ring Configuration 1 Auto-refresh

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring Type |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|------------|
| 1 | 7 | 8 | 7 | 8 | 7 | 8 | Major Ring |

Instance Configuration

| Configured | WTR(Wait to Restore) Time | Revertive | VLAN config |
|-------------------------------------|---------------------------|-------------------------------------|-------------|
| <input checked="" type="checkbox"/> | 1min | <input checked="" type="checkbox"/> | VLAN Config |

RPL Configuration

| RPL Role | RPL Port | Clear |
|-----------|-----------|--------------------------|
| RPL_Owner | West Port | <input type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive APS | West Port Receive APS | WTR Remaining | RPL Unblocked | No APS Received | East Port Block Status | West Port Block Status | FOP Alarm |
|------------------|-----------|-----------|--------------|---------------------------------|---------------------------------|---------------|-------------------------------------|-------------------------------------|------------------------|------------------------|-------------------------------------|
| Idle | OK | OK | NR RB BPR1 | NR RB BPR1 9A-86-03-3B-69-08 | NR RB BPR1 9A-86-03-3B-69-08 | 0 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Unblocked | Blocked | <input checked="" type="checkbox"/> |

Rapid Ring VLAN Configuration 1

| Delete | VLAN ID |
|--------------------------|---------|
| <input type="checkbox"/> | 1 |
| <input type="checkbox"/> | 3003 |

4. Set SW2 as Ring1, the type is Major, and set control VLAN as 3002. And set Port 7 as the East port, Port 8 as the West port. New added VLAN 3003 to protect Ring1 from message in Ring2. The configuration of MEP is same with step 3.

Information & Status
 MLD Snooping
 DHCP
 Security
 QoS
 Network Admin
 Port Configure
 PoE
 Advanced Configure
 MAC Table
 Ethernet Services
 VLANs
 Port Isolation
 Loop Protection
 Spanning Tree
 IPMC Profile
MEP
 ERPS
 IGMP Snooping
 IPv6 MLD Snooping
 LLDP
 Security Configure
 QoS Configure
 Diagnostics
 Maintenance

Maintenance Entity Point

Refresh

| Delete | Instance | Domain | Mode | Direction | Residence Port | Level | Flow Instance | Tagged VID | This MAC | Alarm |
|--------------------------|----------|--------|------|-----------|----------------|-------|---------------|------------|-------------------|--------------------------------------|
| <input type="checkbox"/> | 7 | Port | Mep | Down | 7 | 0 | | 3002 | 9A-86-03-3C-79-08 | ● |
| <input type="checkbox"/> | 8 | Port | Mep | Down | 8 | 0 | | 3002 | 9A-86-03-3C-79-09 | ● |

Add New MEP Save Reset

Information & Status
 MLD Snooping
 DHCP
 Security
 QoS
 Network Admin
 Port Configure
 PoE
 Advanced Configure
 MAC Table
 Ethernet Services
 VLANs
 Port Isolation
 Loop Protection
 Spanning Tree
 IPMC Profile
 MEP
ERPS
 IGMP Snooping
 IPv6 MLD Snooping
 LLDP
 Security Configure
 QoS Configure
 Diagnostics
 Maintenance

Ethernet Rapid Ring Protection Switching

| Delete | Ring ID | East Port | West Port | Ring Type | Interconnected Node | Major RRing ID | Alarm |
|--------------------------|---------|-----------|-----------|-----------|---------------------|----------------|--------------------------------------|
| <input type="checkbox"/> | 1 | 7 | 8 | Major | No | 1 | ● |

Add New Ring Group Save Reset

Information & Status
 MLD Snooping
 DHCP
 Security
 QoS
 Network Admin
 Port Configure
 PoE
 Advanced Configure
 MAC Table
 Ethernet Services
 VLANs
 Port Isolation
 Loop Protection
 Spanning Tree
 IPMC Profile
 MEP
ERPS
 IGMP Snooping
 IPv6 MLD Snooping
 LLDP
 Security Configure
 QoS Configure
 Diagnostics
 Maintenance

Rapid Ring Configuration 1

Auto-refresh Refresh

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring Type |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|------------|
| 1 | 7 | 8 | 7 | 8 | 7 | 8 | Major Ring |

Instance Configuration

| Configured | WTR(Wait to Restore) Time | Revertive | VLAN config |
|--------------------------------------|---------------------------|-------------------------------------|-------------|
| ● | 1min | <input checked="" type="checkbox"/> | VLAN Config |

RPL Configuration

| RPL Role | RPL Port | Clear |
|----------|----------|--------------------------|
| None | None | <input type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive APS | West Port Receive APS | WTR Remaining | RPL Un-blocked | No APS Received | East Port Block Status | West Port Block Status | FOP Alarm |
|------------------|-----------|-----------|--------------|---------------------------------|---------------------------------|---------------|--------------------------------------|--------------------------------------|------------------------|------------------------|--------------------------------------|
| Idle | OK | OK | | NR RB BPR1 9A-86-03-3B-69-08 | NR RB BPR1 9A-86-03-3B-69-08 | 0 | ● | ● | Unblocked | Unblocked | ● |

Save Reset

Rapid Ring VLAN Configuration 1

| Delete | VLAN ID |
|--------------------------|---------|
| <input type="checkbox"/> | 1 |
| <input type="checkbox"/> | 3003 |

Buttons: Add New Entry, Back, Save, Reset

5. Set port 7-8 of SW3 as Ring1, the type is Major, and set control VLAN as 3002. And set Port 7 as the East port, Port 8 as the West port. New added VLAN 3003 to protect Ring1 from message in Ring2.

Set port 9-10 of SW3 as Ring2, the type is Major, and set control VLAN as 3003. And set Port 9 as the East port, Port 10 as the West port. New added VLAN 3002 to protect Ring2 from message in Ring1. Click Interconnected Node for RING1 and RING2.

RING1:

Maintenance Entity Point

| Delete | Instance | Domain | Mode | Direction | Residence Port | Level | Flow Instance | Tagged VID | This MAC | Alarm |
|--------------------------|----------|--------|------|-----------|----------------|-------|---------------|------------|-------------------|-------|
| <input type="checkbox"/> | 7 | Port | Mep | Down | 7 | 0 | | 3002 | 9A-86-03-3B-58-08 | ● |
| <input type="checkbox"/> | 8 | Port | Mep | Down | 8 | 0 | | 3002 | 9A-86-03-3B-58-09 | ● |
| <input type="checkbox"/> | 9 | Port | Mep | Down | 9 | 0 | | 3003 | 9A-86-03-3B-58-0A | ● |

Buttons: Add New MEP, Save, Reset

Information & Status

- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
- Port Configure
- PoE
- Advanced Configure
 - MAC Table
 - Ethernet Services
 - VLANS
 - Port Isolation
 - Loop Protection
 - Spanning Tree
 - IPMC Profile
 - MEP
 - ERPS**
 - IGMP Snooping
 - IPV6 MLD Snooping
 - LLDP

Ethernet Rapid Ring Protection Switching

| Delete | Ring ID | East Port | West Port | Ring Type | Interconnected Node | Major RRing ID | Alarm |
|--------------------------|---------|-----------|-----------|-----------|---------------------|----------------|--------------------------------------|
| <input type="checkbox"/> | 1 | 7 | 8 | Major | Yes | 1 | ● |
| <input type="checkbox"/> | 2 | 9 | - | Sub | Yes | 1 | ● |

Information & Status

- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
- Port Configure
- PoE
- Advanced Configure
 - MAC Table
 - Ethernet Services
 - VLANS
 - Port Isolation
 - Loop Protection
 - Spanning Tree
 - IPMC Profile
 - MEP
 - ERPS**
 - IGMP Snooping
 - IPV6 MLD Snooping
 - LLDP
- Security Configure
- QoS Configure
- Diagnostics
- Maintenance

Rapid Ring Configuration 1

Auto-refresh

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring Type |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|------------|
| 1 | 7 | 8 | 7 | 8 | 7 | 8 | Major Ring |

Instance Configuration

| Configured | WTR(Wait to Restore) Time | Revertive | VLAN config |
|--------------------------------------|---------------------------|-------------------------------------|--------------------------|
| ● | 1min | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

RPL Configuration

| RPL Role | RPL Port | Clear |
|----------|----------|--------------------------|
| None | None | <input type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive APS | West Port Receive APS | WTR Remaining | RPL Un-blocked | No APS Received | East Port Block Status | West Port Block Status | FOP Alarm |
|------------------|-----------|-----------|--------------|---------------------------------|---------------------------------|---------------|--------------------------------------|--------------------------------------|------------------------|------------------------|--------------------------------------|
| Idle | OK | OK | | NR RB BPR1 9A-86-03-3B-69-08 | NR RB BPR1 9A-86-03-3B-69-08 | 0 | ● | ● | Unblocked | Unblocked | ● |

Information & Status

- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
- Port Configure
- PoE
- Advanced Configure
 - MAC Table
 - Ethernet Services
 - VLANS
 - Port Isolation
 - Loop Protection
 - Spanning Tree
 - IPMC Profile
 - MEP
 - ERPS**
 - IGMP Snooping
 - IPV6 MLD Snooping
 - LLDP

Rapid Ring VLAN Configuration 1

| Delete | VLAN ID |
|--------------------------|---------|
| <input type="checkbox"/> | 1 |
| <input type="checkbox"/> | 3003 |

RING2:

Information & Status

- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
- Port Configure
- PoE
- Advanced Configure
 - MAC Table
 - Ethernet Services
 - VLANs
 - Port Isolation
 - Loop Protection
 - Spanning Tree
 - IPMC Profile
 - MEP
 - ERPS**
 - MLD Snooping
 - IPv6 MLD Snooping
 - LLDP
- Security Configure
- QoS Configure
- Diagnostics
- Maintenance

Rapid Ring Configuration 2

Auto-refresh Refresh

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring Type |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|-----------|
| 2 | 9 | 0 | 9 | 0 | 9 | 0 | Sub Ring |

Instance Configuration

| Configured | WTR(Wait to Restore) Time | Revertive | VLAN config |
|-------------------------------------|---------------------------|-------------------------------------|-------------|
| <input checked="" type="checkbox"/> | 1min | <input checked="" type="checkbox"/> | VLAN Config |

RPL Configuration

| RPL Role | RPL Port | Clear |
|----------|----------|--------------------------|
| None | None | <input type="checkbox"/> |

Sub-Ring Configuration

| Ring Type | Topology Change |
|-----------|-------------------------------------|
| Sub Ring | <input checked="" type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive APS | West Port Receive APS | WTR Remaining | RPL Unblocked | No APS Received | East Port Block Status | West Port Block Status | FOP Alarm |
|------------------|-----------|-----------|--------------|---------------------------------|-----------------------|---------------|-------------------------------------|-------------------------------------|------------------------|------------------------|-------------------------------------|
| Idle | OK | OK | | NR R5 BPRO 9A-86-03-3B-3F-0A | | 0 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Unblocked | Unblocked | <input checked="" type="checkbox"/> |

Save Reset

Information & Status

- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
- Port Configure
- PoE
- Advanced Configure
 - MAC Table
 - Ethernet Services
 - VLANs
 - Port Isolation
 - Loop Protection
 - Spanning Tree
 - IPMC Profile
 - MEP
 - ERPS**

Rapid Ring VLAN Configuration 2

| Delete | VLAN ID |
|--------------------------|---------|
| <input type="checkbox"/> | 1 |
| <input type="checkbox"/> | 3002 |

Add New Entry Back

Save Reset

6. Same configuration with SW3 for SW4. The different is need to set port 9 as the owner.

Rapid Ring Configuration 2 Auto-refresh Refresh

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring Type |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|-----------|
| 2 | 9 | 0 | 9 | 0 | 9 | 0 | Sub Ring |

Instance Configuration

Configured WTR(Wait to Restore) Time Revertive VLAN config

RPL Configuration

| RPL Role | RPL Port | Clear |
|----------|-----------|--------------------------|
| RPL_Omex | East Port | <input type="checkbox"/> |

Sub-Ring Configuration

| Ring Type | Topology Change |
|-----------|-------------------------------------|
| Sub Ring | <input checked="" type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive APS | West Port Receive APS | WTR Remaining | RPL Un-blocked | No APS Received | East Port Block Status | West Port Block Status | FOP Alarm |
|------------------|-----------|-----------|--------------|-----------------------|-----------------------|---------------|-------------------------------------|-------------------------------------|------------------------|------------------------|-------------------------------------|
| Idle | OK | OK | NR RB BPR0 | | | 0 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Blocked | Unblocked | <input checked="" type="checkbox"/> |

7. Set SW5 as Ring2, the type is Sub, and set control VLAN as 3003. And set Port 9 as the East port, Port 10 as the West port. New added VLAN 3002 to protect Ring1 from message in Ring1. Configuration of MEP is same with Step 3.

Maintenance Entity Point Re

| Delete | Instance | Domain | Mode | Direction | Residence Port | Level | Flow Instance | Tagged VID | This MAC | Alarm |
|--------------------------|----------|--------|------|-----------|----------------|-------|---------------|------------|-------------------|-------------------------------------|
| <input type="checkbox"/> | 9 | Port | Mep | Down | 9 | 0 | | 3003 | 9A-86-03-3A-3C-0A | <input checked="" type="checkbox"/> |
| <input type="checkbox"/> | 10 | Port | Mep | Down | 10 | 0 | | 3003 | 9A-86-03-3A-3C-0B | <input checked="" type="checkbox"/> |

Rapid Ring Configuration 2 Auto-refresh Refresh

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring Type |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|-----------|
| 2 | 9 | 10 | 9 | 10 | 9 | 10 | Sub Ring |

Instance Configuration

Configured WTR(Wait to Restore) Time Revertive VLAN config

RPL Configuration

| RPL Role | RPL Port | Clear |
|----------|----------|--------------------------|
| None | None | <input type="checkbox"/> |

Sub-Ring Configuration

| Ring Type | Topology Change |
|-----------|-------------------------------------|
| Sub Ring | <input checked="" type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive APS | West Port Receive APS | WTR Remaining | RPL Un-blocked | No APS Received | East Port Block Status | West Port Block Status | FOP Alarm |
|------------------|-----------|-----------|--------------|-----------------------|-----------------------|---------------|-------------------------------------|-------------------------------------|------------------------|------------------------|-------------------------------------|
| Idle | OK | OK | | NR RB BPR0 | 9A-86-03-3B-3F-0A | 0 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Unblocked | Unblocked | <input checked="" type="checkbox"/> |

The screenshot displays a network configuration interface. On the left is a sidebar menu with the following items: Information & Status, MLD Snooping, DHCP, Security, QoS, Network Admin, Port Configure, PoE, Advanced Configure (with sub-items: MAC Table, Ethernet Services, VLANs, Port Isolation, Loop Protection, Spanning Tree, IPMC Profile, MEP, ERPS, IGMP Snooping, IPV6 MLD Snooping, LLDP), Security Configure, QoS Configure, Diagnostics, and Maintenance. The 'ERPS' item is highlighted with a red box. The main content area is titled 'Rapid Ring VLAN Configuration 2' and contains a table with two columns: 'Delete' and 'VLAN ID'. The table has two rows: one with a checkbox and '1', and another with a checkbox and '3002'. Below the table are buttons for 'Add New Entry', 'Back', 'Save', and 'Reset'. The 'Save' button is highlighted with a blue border.

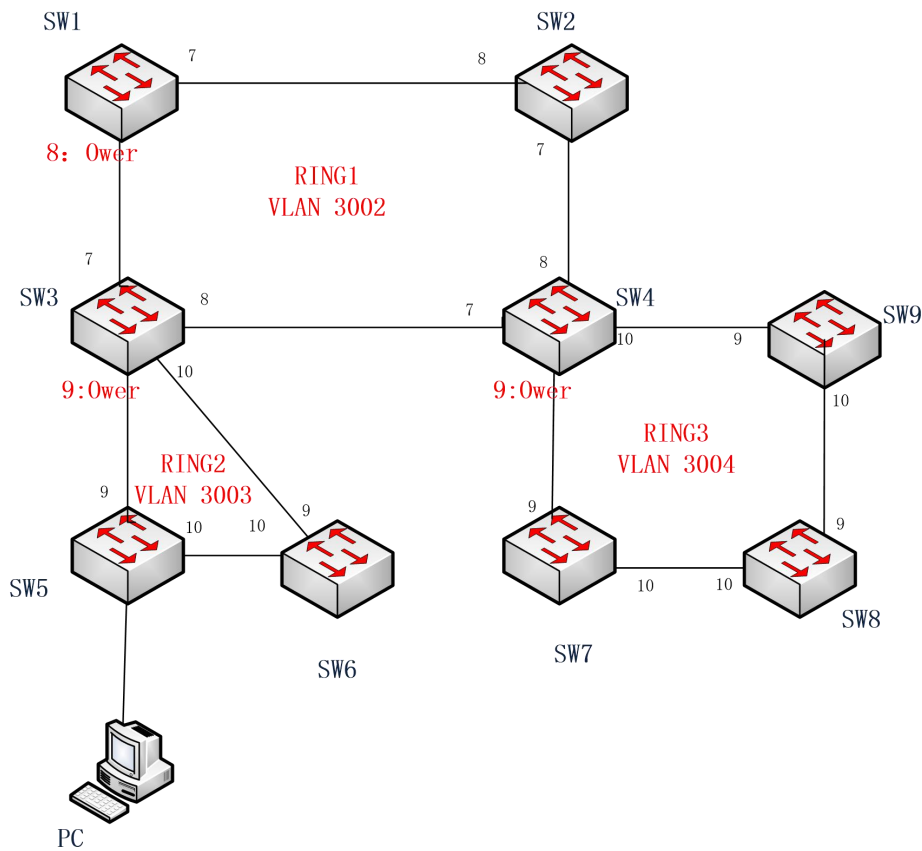
| Delete | VLAN ID |
|--------------------------|---------|
| <input type="checkbox"/> | 1 |
| <input type="checkbox"/> | 3002 |

8. Configuration of SW6 & SW7 is same with SW5.

9. Test the configuration result. Users can ping SW1-SW7 in PC, also can ping them if the ring is connected.

C. Intersecting-ring Configuration

1. Form SW1 - SW9 to a intersecting ring through ERPS, Users can ping SW1-SW9 in PC, also can ping them if Ring is disconnected.



2. Set the IP of SW1-SW9 as (192.168.2.1) - (192.168.2.9), and set the port to trunk port, which is used to connect with the ring.

Information & Status
 MLD Snooping
 DHCP
 Security
 QoS
 Network Admin
 IP
 NTP
 Timezone
 SNMP
 SysLog
 Port Configure
 PoE
 Advanced Configure
 Security Configure
 QoS Configure
 Diagnostics
 Maintenance

IP Configuration

Mode: Host

DNS Server 0: No DNS server

DNS Server 1: No DNS server

DNS Server 2: No DNS server

DNS Server 3: No DNS server

DNS Proxy:

IP Interfaces

| Delete | VLAN | DHCPv4 | | | IPv4 | | Enable | DHCPv6 | | IPv6 | |
|--------------------------|------|--------------------------|----------|---------------|-------------|-------------|--------------------------|--------------------------|---------------|---------|-------------|
| | | Enable | Fallback | Current Lease | Address | Mask Length | | Rapid Commit | Current Lease | Address | Mask Length |
| <input type="checkbox"/> | 1 | <input type="checkbox"/> | 0 | | 192.168.2.2 | 24 | <input type="checkbox"/> | <input type="checkbox"/> | | | |

Add Interface

IP Routes

| Delete | Network | Mask Length | Gateway | Next Hop VLAN |
|--------------------------|---------|-------------|---------|---------------|
| <input type="checkbox"/> | | | | |

Add Route

Save Reset

Information & Status

- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
- Port Configure
- PoE
- Advanced Configure
 - MAC Table
 - Ethernet Services
 - VLANs**
 - Port Isolation
 - Loop Protection
 - Spanning Tree
 - IPMC Profile
 - MEP
 - ERPS
 - IGMP Snooping
 - IPv6 MLD Snooping
 - LLDP
- Security Configure

Global VLAN Configuration

Allowed Access VLANs: 1

Ethertype for Custom S-ports: 88A8

Port VLAN Configuration

| Port | Mode | Port VLAN | Port Type | Ingress Filtering | Ingress Acceptance | Egress Tagging | Allowed VLANs | Forbidden VLANs |
|------|--------|-----------|-----------|-------------------------------------|---------------------|-----------------|---------------|-----------------|
| * | <> | 1 | <> | <input checked="" type="checkbox"/> | <> | <> | 1 | |
| 1 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 2 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 3 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 4 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 5 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 6 | Access | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag All | 1 | |
| 7 | Trunk | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag Port VLAN | 1-4095 | |
| 8 | Trunk | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag Port VLAN | 1-4095 | |
| 9 | Trunk | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag Port VLAN | 1-4095 | |
| 10 | Trunk | 1 | C-Port | <input checked="" type="checkbox"/> | Tagged and Untagged | Untag Port VLAN | 1-4095 | |

Save Reset

3. Set SW1 as Ring1, the type is Major, and set control VLAN as 3002. Enable APS Protocol in MEP, the type is R-APS. And set Port 7 as the East port, Port 8 as the West port. Port 8 is as the owner. New added VLAN 3003 & 3004 to protect Ring1 from message in Ring2 & Ring3.

Information & Status

- MLD Snooping
- DHCP
- Security
- QoS
- Network Admin
- Port Configure
- PoE
- Advanced Configure
 - MAC Table
 - Ethernet Services
 - VLANs
 - Port Isolation
 - Loop Protection
 - Spanning Tree
 - IPMC Profile
 - MEP**
 - ERPS
 - IGMP Snooping
 - IPv6 MLD Snooping
 - LLDP
- Security Configure
- QoS Configure
- Diagnostics
- Maintenance

Maintenance Entity Point

| Delete | Instance | Domain | Mode | Direction | Residence Port | Level | Flow Instance | Tagged VID | This MAC | Alarm |
|--------------------------|----------|--------|------|-----------|----------------|-------|---------------|------------|-------------------|--------------------------------------|
| <input type="checkbox"/> | 7 | Port | Mep | Down | 7 | 0 | | 3002 | 9A-86-03-3B-69-08 | ● |
| <input type="checkbox"/> | 8 | Port | Mep | Down | 8 | 0 | | 3002 | 9A-86-03-3B-69-09 | ● |

Add New MEP Save Reset

vian

MEP Configuration Refresh

Instance Data

| Instance | Domain | Mode | Direction | Residence Port | Flow Instance | Tagged VID | EPS Instance | This MAC |
|----------|--------|------|-----------|----------------|---------------|------------|--------------|-------------------|
| 9 | Port | Mep | Down | 9 | | 3003 | 2 | 9A-86-03-3B-58-0A |

Instance Configuration

| Level | Format | Domain Name | MEG id | MEP id | Tagged VID | Syslog | cLevel | cMEG | cMEP | cAIS | cLCK | cLoop | cConfig |
|-------|---------|-------------|---------------|--------|------------|--------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|
| 0 | ITU ICC | | IC0000MEG0000 | 1 | 3003 | <input type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

Peer MEP Configuration

| Delete | Peer MEP ID | Unicast Peer MAC | cLOC | cRDI | cPeriod | cPriority | cDEG |
|-------------------|-------------|------------------|------|------|---------|-----------|------|
| No Peer MEP Added | | | | | | | |

Functional Configuration

| Continuity Check | | | | APS Protocol | | | | |
|--------------------------|----------|------------|--------------------------|-------------------------------------|----------|-------|-------|------------|
| Enable | Priority | Frame rate | TLV | Enable | Priority | Cast | Type | Last Octet |
| <input type="checkbox"/> | 0 | 1 f/sec | <input type="checkbox"/> | <input checked="" type="checkbox"/> | 0 | Multi | R-APS | 1 |

TLV Configuration

| Organization Specific TLV (Global) | | | | |
|------------------------------------|------------|-----------|----------|-------|
| OUI First | OUI Second | OUI Third | Sub-Type | Value |
| 0 | 0 | 12 | 1 | 2 |

TLV Status

| Peer MEP ID | CC Organization Specific | | | | | CC Port Status | | CC Interface Status | | |
|-------------------|--------------------------|------------|-----------|----------|-------|----------------|-------|---------------------|-------|---------|
| | OUI First | OUI Second | OUI Third | Sub-Type | Value | Last RX | Value | Last RX | Value | Last RX |
| No Peer MEP Added | | | | | | | | | | |

Link State Tracking

Enable

Ethernet Rapid Ring Protection Switching

| Delete | Ring ID | East Port | West Port | Ring Type | Interconnected Node | Major RRing ID | Alarm |
|--------------------------|---------|-----------|-----------|-----------|---------------------|----------------|-------------------------------------|
| <input type="checkbox"/> | 1 | 7 | 8 | Major | No | 1 | <input checked="" type="checkbox"/> |

Information & Status
 MLD Snooping
 DHCP
 Security
 QoS
 Network Admin
 Port Configure
 PoE
 Advanced Configure
 MAC Table
 Ethernet Services
 VLANs
 Port Isolation
 Loop Protection
 Spanning Tree
 IPMC Profile
 MEP
 ERPS
 IGMP Snooping
 IPV6 MLD Snooping
 LLDP
 Security Configure
 QoS Configure
 Diagnostics
 Maintenance

Rapid Ring Configuration 1

Auto-refresh Refresh

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring Type |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|------------|
| 1 | 7 | 8 | 7 | 8 | 7 | 8 | Major Ring |

Instance Configuration

| Configured | WTR(Wait to Restore) Time | Revertive | VLAN config |
|-------------------------------------|---------------------------|-------------------------------------|-------------|
| <input checked="" type="checkbox"/> | 1min | <input checked="" type="checkbox"/> | VLAN Config |

RPL Configuration

| RPL Role | RPL Port | Clear |
|-----------|-----------|--------------------------|
| RPL_Owner | West Port | <input type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive APS | West Port Receive APS | WTR Remaining | RPL Un-blocked | No APS Received | East Port Block Status | West Port Block Status | FOP Alarm |
|------------------|-----------|-----------|--------------|---------------------------------|---------------------------------|---------------|-------------------------------------|-------------------------------------|------------------------|------------------------|-------------------------------------|
| Idle | OK | OK | NR RB BPR1 | NR RB BPR1 9A-86-03-3B-69-08 | NR RB BPR1 9A-86-03-3B-69-08 | 0 | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | Unblocked | Blocked | <input checked="" type="checkbox"/> |

Save Reset

Information & Status
 MLD Snooping
 DHCP
 Security
 QoS
 Network Admin
 Port Configure
 PoE
 Advanced Configure
 MAC Table
 Ethernet Services
 VLANs
 Port Isolation
 Loop Protection
 Spanning Tree
 IPMC Profile
 MEP
 ERPS
 IGMP Snooping
 IPV6 MLD Snooping
 LLDP
 Security Configure
 QoS Configure
 Diagnostics
 Maintenance

Rapid Ring VLAN Configuration 1

| Delete | VLAN ID |
|--------------------------|---------|
| <input type="checkbox"/> | 1 |
| <input type="checkbox"/> | 3003 |
| Delete | 3004 |

Add New Entry Back

Save Reset

4. Configuration of SW2 is same with SW1.

5. Set port 7-8 of SW3 as Ring1, the type is Major, and set control VLAN as 3002. And set Port 7 as the East port. New added VLAN 3003 & 3004 to protect Ring1 from message in Ring2 & Ring3.

- ▶ Information & Status
- ▶ MLD Snooping
- ▶ DHCP
- ▶ Security
- ▶ QoS
- ▶ Network Admin
- ▼ Port Configure
- ▶ PoE
- ▼ Advanced Configure
 - MAC Table
 - ▶ Ethernet Services
 - VLANs
 - ▶ Port Isolation
 - Loop Protection
 - ▶ Spanning Tree
 - ▶ IPMC Profile
 - MEP
 - ERPS

Rapid Ring VLAN Configuration 1

| Delete | VLAN ID |
|--------------------------|---------|
| <input type="checkbox"/> | 1 |
| Delete | 3003 |
| Delete | 3004 |

RING2:

- ▶ Information & Status
- ▶ MLD Snooping
- ▶ DHCP
- ▶ Security
- ▶ QoS
- ▶ Network Admin
- ▼ Port Configure
- ▶ PoE
- ▼ Advanced Configure
 - MAC Table
 - ▶ Ethernet Services
 - VLANs
 - ▶ Port Isolation
 - Loop Protection
 - ▶ Spanning Tree
 - ▶ IPMC Profile
 - MEP
 - ERPS

Rapid Ring Configuration 2

Auto-refresh

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring Type |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|------------|
| 2 | 9 | 10 | 9 | 10 | 9 | 10 | Major Ring |

Instance Configuration

| Configured | WTR(Wait to Restore) Time | Revertive | VLAN config |
|------------|---------------------------|-------------------------------------|-------------|
| ● | 1min | <input checked="" type="checkbox"/> | VLAN Config |

RPL Configuration

| RPL Role | RPL Port | Clear |
|-----------|-----------|--------------------------|
| RPL_Owner | East Port | <input type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive | West Port Receive | WTR Remaining | RPL Un-blocked | No APS Received | East Port Block | West Port Block | FOP Alarm |
|------------------|-----------|-----------|--------------|-------------------|-------------------|---------------|----------------|-----------------|-----------------|-----------------|-----------|
| | | | | | | | | | | | |

- ▶ Information & Status
- ▶ MLD Snooping
- ▶ DHCP
- ▶ Security
- ▶ QoS
- ▶ Network Admin
- ▼ Port Configure
- ▶ PoE
- ▼ Advanced Configure
 - MAC Table
 - ▶ Ethernet Services
 - VLANs
 - ▶ Port Isolation
 - Loop Protection
 - ▶ Spanning Tree
 - ▶ IPMC Profile
 - MEP
 - ERPS
 - ▶ IGMP Snooping

Rapid Ring VLAN Configuration 2

| Delete | VLAN ID |
|--------------------------|---------|
| <input type="checkbox"/> | 1 |
| Delete | 3002 |
| Delete | 3004 |

6. Set Port 9-10 of SW5 as Ring2, the type is Major, and set control VLAN as 3003. And set Port 9 as the East port, Port 10 as the West port. New added VLAN 3002 & 3004 to protect Ring2 from message in Ring1 & Ring3.

Rapid Ring Configuration 2 Auto-refresh

Instance Data

| Ring ID | East Port | West Port | East Port SF MEP | West Port SF MEP | East Port APS MEP | West Port APS MEP | Ring Type |
|---------|-----------|-----------|------------------|------------------|-------------------|-------------------|------------|
| 2 | 9 | 10 | 9 | 10 | 9 | 10 | Major Ring |

Instance Configuration

| Configured | WTR(Wait to Restore) Time | Revertive | VLAN config |
|-------------------------------------|---------------------------|-------------------------------------|-------------------------------------|
| <input checked="" type="checkbox"/> | 1min | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |

RPL Configuration

| RPL Role | RPL Port | Clear |
|----------|----------|--------------------------|
| None | None | <input type="checkbox"/> |

Instance State

| Protection State | East Port | West Port | Transmit APS | East Port Receive | West Port Receive | WTR Remaining | RPL Unblocked | No APS Received | East Port Block | West Port Block |
|------------------|-----------|-----------|--------------|-------------------|-------------------|---------------|---------------|-----------------|-----------------|-----------------|
| | | | | | | | | | | |

Rapid Ring VLAN Configuration 2

| Delete | VLAN ID |
|--------------------------|---------|
| <input type="checkbox"/> | 1 |
| Delete | 3002 |
| Delete | 3004 |

7. Configuration of SW4 is same with SW3.

8. Configuration of SW6-9 is same with SW5.