ERPS 구성방법(G.8032)

Ring 구성조건

1. 링 구성을 하기 위해서는 최소 3개 이상의 스위치가 있어야 한다.

기본설정

1. RING을 구성하려는 스위치 IP주소를 각각 다르게 한다.(192.168.0.X)

2. STP 설정을 disable로 설정

3. 링 구성시 포트는 East->West->East->West->East->West 형태로 포트구성이 되어야 한다.

ERPS설정

1. 스위치 설정(Major 링 설정)

링구성시 한 개의 ring에는 한 개의 Ring ID만 설정(EX.모든 스위치 RING ID : 1)

Ethernet Rapid Ring Protection Switching

Delete	Ring ID	East Port	West Port	Ring Type	Interconnected Node	Major RRing ID	Alarm
☐	1	9	10	Major	No	1	🟢

Ring type : Major

Ring ID 1 을 클릭후 (메인스위치만 해당됨)

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	9	10	9	10	9	10	Major Ring

Instance Configuration

Configured	WTR(Wait to Restore) Time	Revertive	VLAN config
🟢	1min ▾	☑	VLAN Config

RPL Configuration

RPL Role	RPL Port	Clear
RPL_Owner ▾	East Port ▾	☐

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 DNF BPR0	NR RB DNF BPR0 9A-86-02-84-1A-0A	NR RB DNF BPR0 9A-86-02-84-1A-0A	0	🟢	🟢	Blocked	Unblocked	🟢

RPL Role설정 : RPL Owner로 설정// 메인스위치만 해당(나머지 스위치는 None 기본값)

2. MEP 설정

Maintenance Entity Point   [Refresh]

Delete	Instance	Domain	Mode	Direction	Residence Port	Level	Flow Instance	Tagged VID	This MAC	Alarm
☑	1	Port	Mep	Down	1	0	1	3001	B0-1C-91-02-11-16	🔴
☑	2	Port	Mep	Down	2	0	2	3001	B0-1C-91-02-11-17	🟢
☑	3	Port	Mep	Down	3	0	3	3001	B0-1C-91-02-11-18	🔴
☑	4	Port	Mep	Down	4	0	4	3001	B0-1C-91-02-11-19	🔴
☑	5	Port	Mep	Down	5	0	5	3001	B0-1C-91-02-11-1A	🔴
☑	6	Port	Mep	Down	6	0	6	3001	B0-1C-91-02-11-1B	🔴
☑	7	Port	Mep	Down	7	0	7	3001	B0-1C-91-02-11-1C	🔴
☑	8	Port	Mep	Down	8	0	8	3001	B0-1C-91-02-11-1D	🔴
☐	9	Port	Mep	Down	9	0	9	3001	B0-1C-91-02-11-1E	🔴
☐	10	Port	Mep	Down	10	0	10	3001	B0-1C-91-02-11-1F	🔴

[Add New MEP] [Save] [Reset]

不参与的需要删除

MEP에서 링포트를 제외한 나머지는 삭제 한다.

Maintenance Entity Point   [Refre...]

Delete	Instance	Domain	Mode	Direction	Residence Port	Level	Flow Instance	Tagged VID	This MAC	Alarm
☐	25	Port	Mep	Down	25	0	25	4095	9A-86-02-13-5C-1A	🟢
☐	26	Port	Mep	Down	26	0	26	4095	9A-86-02-13-5C-1B	🟢

[Add New MEP] [Save] [Reset]

정상적인 링구성시 Alarm이 초록색으로 변함