



L2VPN Interoperability report from Atlanta N+1 Use of Multiple Instance of OSPF for PE-CE

MPLS Japan

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N+I MPLS iLab

- Cisco
- Juniper
- Unisphere (Juniper)
- Foundry
- Extream
- Riverstone
- Laurel
- IP Infusion

Setting

- Use RSVP-TE for base LSP
- OSPF-TE is used for L3 routing
- MPLS VPN/BGP is used for L3 VPN
- LDP is used (only) for L2 VPN

Martini L2 VPN (EoMPLS)

- Almost of vendor provide the feature
- Some vendor separate base session and extended session
- Interface type is Ethernet VLAN
- Two vendor bring VPLS implementation

OSPF for PE-CE protocol

- draft-ishiguro-ppvpn-pe-ce-ospf-01.txt
- Eric Rosen draft
- Multiple instance OSPF
- Redistribution by BGP

Rosen draft

- OSPF area configuration is very strict
- PE must function as Area 0 router
- Sham link configuration is needed
- Sham link is treated as Demain Circuit
- BGP extended communities attribute is defined for OSPF Domain ID

Benefit

- No protocol change is required in BGP and OSPF
- Any OSPF area configuration can be done between CE and PE
- Applicable to IS-IS

Drawback

