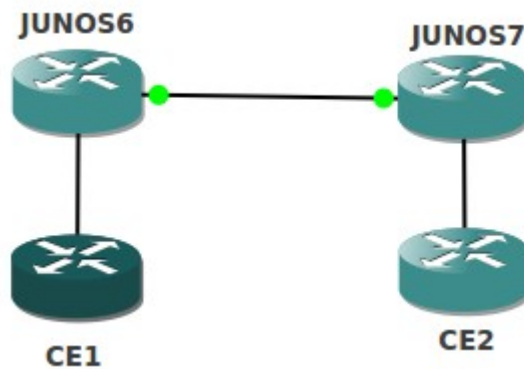


MPLS L2 Pseudowire (draft-martini)



Junos 6 ha configurazione simile (simmetrica) a Junos 7 (P/PE router)

Vengono qui rappresentate solo le parti salienti

JUNOS6 :

```
interfaces {
  em0 {
    unit 0 {
      family inet {
        address 192.168.0.1/30;
      }
      family mpls;
    }
  }
  em1 {
    vlan-tagging;
    encapsulation vlan-ccc;
    unit 10 {
      encapsulation vlan-ccc;
      vlan-id 10;
    }
  }
  lo0 {
    unit 0 {
      family inet {
        address 10.0.0.1/32;
      }
    }
  }
}
protocols {
  mpls {
    traffic-engineering mpls-forwarding;
    interface lo0.0;
    interface em0.0;
  }
  ospf {
    traffic-engineering;
  }
}
```

```

        area 0.0.0.0 {
            interface lo0.0 {
                passive;
            }
            interface em0.0;
        }
    }
    ldp {
        interface em0.0;
        interface lo0.0;
        igp-synchronization holddown-interval 10;
    }
    l2circuit {
        neighbor 10.0.0.2 {
            interface em1.10 {
                virtual-circuit-id 10;
                no-control-word;
                mtu 1400;
                encapsulation-type ethernet-vlan;
            }
        }
    }
}

```

CE1:

```

hostname CE1
!
interface FastEthernet0/0
    no ip address
!
interface FastEthernet0/0.10
    encapsulation dot1Q 10
    ip address 192.168.40.1 255.255.255.0

```

CE2:

```

hostname CE2
!
interface FastEthernet0/0
    no ip address
!
interface FastEthernet0/0.10
    encapsulation dot1Q 10
    ip address 192.168.40.2 255.255.255.0

```

Alcuni output:

```

root@JUNOS6> show l2circuit connections extensive
Layer-2 Circuit Connections:

```

Legend for connection status (St)

EI -- encapsulation invalid	NP -- interface h/w not present
MM -- mtu mismatch	Dn -- down
EM -- encapsulation mismatch	VC-Dn -- Virtual circuit Down
CM -- control-word mismatch	Up -- operational

VM -- vlan id mismatch CF -- Call admission control failure
OL -- no outgoing label IB -- TDM incompatible bitrate
NC -- intf encaps not CCC/TCC TM -- TDM misconfiguration
BK -- Backup Connection ST -- Standby Connection
CB -- rcvd cell-bundle size bad SP -- Static Pseudowire
LD -- local site signaled down RS -- remote site standby
RD -- remote site signaled down XX -- unknown

Legend for interface status

Up -- operational

Dn -- down

Neighbor: 10.0.0.2

Interface	Type	St	Time last up	# Up trans
em1.10(vc 10)	rmt	Up	Jul 15 14:11:12 2013	1

Remote PE: 10.0.0.2, Negotiated control-word: No
Incoming label: 299776, Outgoing label: 299776
Negotiated PW status TLV: No
Local interface: em1.10, Status: Up, Encapsulation: VLAN

Connection History:

Jul 15 14:11:12 2013	status update timer	
Jul 15 14:11:12 2013	PE route changed	
Jul 15 14:11:12 2013	Out lbl Update	299776
Jul 15 14:11:12 2013	In lbl Update	299776
Jul 15 14:11:12 2013	loc intf up	em1.10

root@JUNOS6> ping mpls l2circuit interface em1.10

!!!!!

--- lsping statistics ---

5 packets transmitted, 5 packets received, 0% packet loss

unfortunately it seems that L2VPN (kompella-draft) and L2CIRCUIT (martini-draft) data plane do not work with Olive