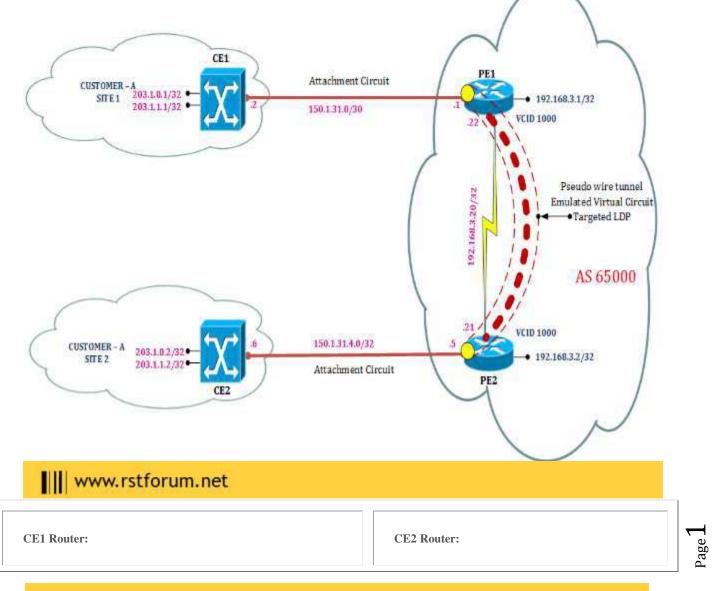


## **EoMPLS Carrying Simple Ethernet**

## Disclaimer

This Configuration Guide is designed to assist members to enhance their skills in particular technology area. While every effort has been made to ensure that all material is as complete and accurate as possible, the enclosed material is presented on an "as is" basis. Neither the authors nor Forum assume any liability or responsibility to any person or entity with respect to loss or damages incurred from the information contained in this guide. This configuration guide was developed by Forum. Any similarities between material presented in this configuration guide and any other material is completely coincidental.

**Summary:** The **Attachment Circuit (AC)** can be Ethernet port or 802.1Q sub-interface (VLAN). For each AC, EDP signals different VC type via the targeted LDP session. VC Type 5 for Ethernet Port mode and VC Type 4 fo Ethernet VLAN mode. Here, Ethernet Port mode is described. In Ethernet Port mode, a VLAN reason might or might not be present on the frame. In any case, the PE router carries the frame transparently. This arrows an Ethernet Trunk to be carried over a single Pseudowire.



p cef	ip cef
nterface FastEthernet0/0	interface FastEthernet0/0
description Connected to PE1	description Connected to PE1
p address 150.1.31.2 255.255.255.252	ip address 150.1.31.6 255.255.255.252
	1
end	end
PE1 Router:	PE2 Router:
p cef	ip cef
npls label protocol ldp	
	mpls label protocol dp
pseudowire-class MPLS_Encapsulation	
encapsulation mpls	interface Loopback0
	ip address 192.168.3.2
nterface Loopback0	255.255.255.255
p address 192.168.3.1 255.255.255.255	ip ospf 1 area 0
p ospf 1 area 0	
	interface FastEthernet0/0
nterface FastEthernet0/0	description Connected to CE2
lescription Connected to CE1	xconnect 192.168.3.1 1000
xconnect 192.168.3.2 1000 pw-class	encapsulation mpls
MPLS_Encapsulation	!
	interface Serial2/0
nterface Serial2/0	ip address 192.168.3.21
p address 192.168.3.22 255.255.255.252	255.255.255.252
p ospf 1 area 0	ip ospf 1 area 0
ag-switching ip	tag-switching ip
	!
outer ospf 1	router ospf 1
ag-switching tdp router-id Loopback0 force	tag-switching tdp router-id Loopback0
	force
end	!
	end

Verification:PE1#show mpls l2transport vc Local intf Local circuit

Dest address VC ID Status

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\_\_\_\_\_ \_\_\_\_\_ Fa0/0 Ethernet 192.168.3.2 2000 UP PE2#show mpls l2transport vc VC ID Local intf Local circuit Dest address Status Fa0/0 Ethernet 192.168.3.1 2000 PE1#sh mpls l2transport vc detail Local interface: Fa0/0 up, line protocol up, Ethernet up Destination address: 192.168.3.2, VC ID: 2000, VC status: Preferred path: not configured Default path: active Next hop: point2point Output interface: Se2/0, imposed label stack {17} Create time: 00:22:38, last status change time: 00:21:57 Signaling protocol: LDP, peer 192.168.3.2:0 MPLS VC labels: local 17, remote Group ID: local 0, remote 0 MTU: local 1500, remote 1500 Remote interface description: Connected to CE2 Sequencing: receive disabled, send disabled VC statistics: packet totals: receive 157, send 154 byte totals: receive 17709, send 17380 receive 0, seq error 0, send 0 packet drops: PE2#sh mpls I2transport vc detail Local interface: Fa0/0 up, line protocol up, Ethernet up Destination address: 192.168.3.1, VC ID: 2000, VC status: up Preferred path: not configured Default path: active Next hop: point2point Output interface: Se2/0, imposed label stack {17}

Create time: 00:23:19, last status change time: 00:23:14 Signaling protocol: LDP, peer 192.168.3.1:0 up MPLS VC labels: local 17, remote 17 Group ID: local 0, remote 0 MTU: local 1500, remote 1500 Remote interface description: Connected to CE1 Sequencing: receive disabled, send disabled VC statistics: packet totals: receive 162, send 165 byte totals: receive 18238, send 18572 , stow packet drops: receive 0, seq error 0, send 0

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