



642-889^{Q&As}

Implementing Cisco Service Provider Next-Generation Edge Network Services

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**QUESTION 1**

Which three security features can be implemented on PEs inside a Cisco IOS XR VPLS environment? (Choose three.)

- A. MAC flooding
- B. neighbor VC storm-control
- C. interface storm-control
- D. MAC learning
- E. DHCP snooping
- F. MAC withdrawal

Correct Answer: ABC

QUESTION 2

A network engineer is tasked to implement an AToM VPN for a given customer to emulate a Frame Relay virtual circuit over the MPLS-enabled core network. Which command enables Frame Relay to forward frames from the attachment circuit over the emulated session in regular Cisco IOS Software?

- A. ip route 0.0.0.0 0.0.0.0 tailend_router_ip
- B. encapsulation frame-relay
- C. frame-relay switching
- D. frame-relay intf-type dce

Correct Answer: C

QUESTION 3

When implementing nonhierarchical VPLS with eight PE routers, how many total PWs will be required between the PE routers?

- A. 8
- B. 16
- C. 28
- D. 32
- E. 64

Correct Answer: C



8 * (8-1) /2

QUESTION 4

Which method is used to provide inter-AS AToM services?

- A. back-to-back VRF
- B. targeted LDP
- C. pseudowire stitching
- D. AToM interworking
- E. Cisco MPLS TE tunnels
- F. autodiscovery

Correct Answer: C



Understanding L2VPN Pseudowire Stitching

L2VPN Pseudowire Stitching defines a static or dynamically configured set of two or more pseudowire segments that behave and function as a single point-to-point pseudowire. L2VPN Pseudowire Stitching enables L2VPN pseudowires to extend across two separate MPLS networks or across an inter-AS boundary, as shown in [Figure 1](#) and [Figure 2](#).

L2VPN Pseudowire Stitching connects two or more contiguous pseudowire segments to form an end-to-end multihop pseudowire. This end-to-end pseudowire functions as a single point-to-point pseudowire.

As shown in [Figure 2](#), L2VPN Pseudowire Stitching enables you to keep the IP addresses of the edge PE routers private across inter-AS boundaries. You can use the IP address of the Autonomous System Boundary Routers (ASBRs) and treat them as pseudowire aggregation (PE-agg) routers. The ASBRs join the pseudowires of the two domains.

Figure 7. L2VPN Pseudowire Stitching in an Intra-AS Topology

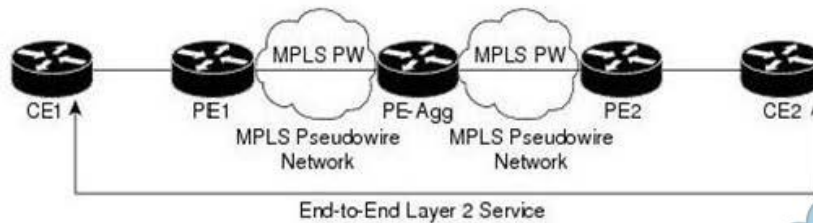
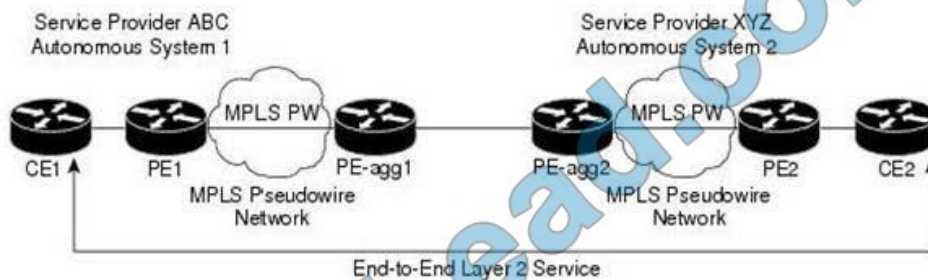


Figure 8. L2VPN Pseudowire Stitching in an Inter-AS Topology



Restrictions for L2VPN Pseudowire Stitching

- L2VPN Pseudowire Stitching is supported with AToM.
- Only static, on-box provisioning is supported.
- Sequencing numbers in AToM packets are not processed by L2VPN Pseudowire Stitching. The feature passes the sequencing data through the cross-connect packet paths, a process that is called transparent sequencing. The end point PE to CE connections enforce the sequencing.
- You can ping the adjacent next-hop PE router. End-to-end LSP pings are not supported.
- Do not configure IP or Ethernet interworking on a router where L2VPN Pseudowire Stitching is enabled. Instead, configure interworking on the routers at the edge PEs of the network.
- The control word negotiation results must match. If either segment does not negotiate the control word, the control word is disabled for both segments.
- AToM Graceful Restart is negotiated independently on each pseudowire segment. If there is a transient loss of the LDP session between two AToM PE routers, packets continue to flow.
- Per-pseudowire QoS is not supported. The TE tunnel selection is supported.
- Attachment circuit interworking is not supported.

• [NTP-J34 Configure the Pseudowire Stitching Using Cisco IOS Commands](#)

NTP-J34 Configure the Pseudowire Stitching Using Cisco IOS Commands

Purpose	This procedure configures L2VPN Pseudowire Stitching on each of the PE routers.
Tools/Equipment	None
Prerequisite Procedures	None
Required/As Needed	As needed
Onsite/Remote	Onsite
Security Level	Provisioning or higher



Reference:

http://www.cisco.com/en/US/docs/optical/cpt/r9_3/configuration/guide/cpt93_configuration_chapter_0111.html

QUESTION 5

In which mode must AToM be configured when you configure Frame Relay to AAL5?

- A. bridge
- B. routed
- C. Ethernet
- D. IP

Correct Answer: B

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