

Exam : Alcatel-Lucent 4A0-105

**Title : Alcatel-Lucent Virtual
Private LAN Services**

Version : Demo

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1. Which of the following best describes the difference between VPWS and VPLS?

- A. VPWS is a point-to-point service where CEs are presented with point-to-point virtual circuits whereas VPLS is a bridged LAN service provided to a set of CEs that are members of a L2 VPN
- B. Unlike VPLS, VPWS allows CEs that are member of the same service instance to communicate with each other as if they are connected via a bridged LAN
- C. Unlike VPWS, VPLS provides customers to view the network as an unshared overlay link or circuit

Answer: A

2. The behavior of VPLS can be best described by which of the following statements?

- A. A frame should be sent only to the PE that connects to the target site of the frame whenever possible
- B. A frame should be flooded as little as possible
- C. Customer frames should be switched based on the destination MAC address
- D. Only (a) and (b) are true
- E. All of the above

Answer: E

3. Which of the following statements relating to VPLS are false?

- A. A VPLS is a multipoint Layer 2 service
- B. A VPLS allows multiple customer sites to be connected in a single bridged domain
- C. A VPLS on a single node requires a Service Distribution Path
- D. With VPLS Service provider can reuse their IP/MPLS infrastructure to offer multiple services
- E. The VPLS switches traffic based on MAC address associated to the appropriate SAP

Answer: C

4. True or False? Multiple VPLS services can be offered over the same set of LSP tunnels?

- A. True
- B. False

Answer: A

5. Which of the following contributes to VPLS implementation over MPLS?

A.Connecting bridging-capable provider edge routers with a full mesh of MPLS LSP (label switched path) tunnels

B.Negotiating per-service VC labels using draft-Martini encapsulation

C.Replicating unknown and broadcast traffic in a service domain

D.Enabling MAC learning over tunnel and access ports

E.Using a separate forwarding information base (FIB) per VPLS service

F.All of the above

Answer: F

6.Which of the following statements is false?

A.VPLS is a bridged LAN service

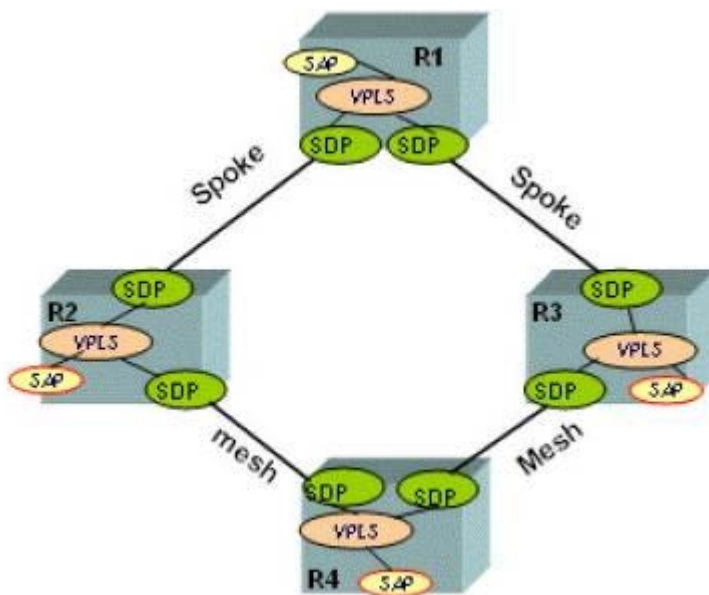
B.VPLS provides L2 VPN services to CEs

C.VPLS is a point-to-point service where CEs are presented with point- to-point virtual circuits

D.CEs that are members of the same VPLS service instance communicate with each other as if they are connected via a bridged LAN

Answer: C

7.Which SDP on R3 will MAC addresses be associated with for devices behind R2?



A.It depends if traffic is received via R4 or R1 from devices behind R2

B.The devices cannot communicate based on the configuration in the diagram so there will be no mac

address association

C.Devices behind R2 will be associated with the sdp between R3 and R1

D.Devices behind R2 will be associated with the sdp between R3 and R4

Answer: C

8.Which of the following functions must a PE router support when participating in a VPLS network? Choose all that apply.

A.MAC learning

B.Packet replication

C.Proxy ARP

D.Packet forwarding

E.Flood all frames with an unknown destination MAC address to all PE routers associated with that VPLS

Answer: A B D E

9.Select the command from the list below that produced the following output.

Err Info	Local	Remote
Type:	VPLS	VPLS
Admin State:	Up	Up
Oper State:	Up	Up
Service-MTU:	1514	1514
Customer ID:	10	10
IP Interface State:	Up	
Actual IP Addr:	10.10.10.10	20.20.20.20
Expected Peer IP:	20.20.20.20	10.10.10.10
SDP Path Used:	Yes	Yes
SDP-ID:	10	10
Admin State:	Up	Up
Operative State:	Up	Up
Binding Admin State:	Up	Up
Binding Oper State:	Up	Up
Binding VC ID:	10	10
Binding Type:	Mesh	Mesh
Binding Vc-type:	Ether	Ether
Binding Vlan-vc-tag:	N/A	N/A
Egress Label:	131068	131070
Ingress Label:	131070	131068
Egress Label Type:	Signaled	Signaled
Ingress Label Type:	Signaled	Signaled

A.oam svc-ping 20.20.20.20 service 10 local-sdp remote-sdp

B.oam sdp-ping 10 resp-sdp 10

C.oam svc-ping 20.20.20.20 service 10 local-sdp

D.oam svc-ping 10.10.10.10 service 10 local-sdp remote-sdp

E.oam svc-ping 10.10.10.10 service 10 local-sdp

Answer: A

10. Based on the following output what will the vc-id be of any mesh-sdp bound to this service?

```
A:PE-Z>config>service# show service id 9000 base
```

```
=====
Service Basic Information
=====
```

```
Service Id       : 9000                Vpn Id          : 0
Service Type    : VPLS
Customer Id     : 100
Last Status Change: 02/12/2007 13:17:11
Last Mgmt Change : 02/12/2007 13:17:11
Admin State     : Up                   Oper State      : Up
MTU             : 1514                 Def. Mesh VC Id : 1000
SAP Count       : 0                   SDP Bind Count  : 1
Send Flush on Fail: Disabled
```

```
-----
Service Access & Destination Points
-----
```

```
Identifier                Type          AdmMTU  OprMTU  Adm    Opr
-----
```

A.9000

B.1514

C.1000

D.0

Answer: C

11. Select items from the list below that are required for an operational mesh-sdp binding when signaling is enabled within the SDP.

A.LDP must be enabled

B.RSVP must be enabled

C.An SDP must be configured on the far-end

D.A transport tunnel must be up in both directions

E.A transport tunnel only needs to be up in one direction

Answer: A C D

12. Which OAM tool can be used to discover the MAC address of a CE device connected to a SAP within a VPLS service?

A.oam cpe-ping

B.oam mac-ping

C.oam mac-trace

D.oam svc-ping

Answer: A

13. During the process of troubleshooting a VPLS problem the `am mac-purge` command with `egister` option was used to purge a MAC address from the FDB. Which of the following statements is true? Choose all that apply.

- A. Relearning of the MAC address that was purged can only be done once customer traffic resumes
- B. Relearning of the MAC address that was purged can only be done with the `am mac-populate` command
- C. Customer traffic destined to the MAC address that was purged will be flooded until the MAC address is repopulated with the `am mac-populate` command
- D. Customer traffic destined to the MAC address that was purged will be dropped until the until the MAC address is repopulated with the `am mac-populate` command

Answer: B C

14. Which of the following OAM tools can be used as a VPLS topology discovery mechanism?

- A. `oam mac-ping`
- B. `oam mac-populate`
- C. `oam svc-ping`
- D. `oam mac-trace`

Answer: D

15. The following question relates to this command syntax: `config>service# vpls 9000 customer 6 create?`

Which of the following statements are correct?

- A. The Customer-id in this command is 9000
- B. The service-id in this command is 9000
- C. This value 9000 must be unique to this service and may not be used for any other service of any type

Answer: B C

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