



300-425^{Q&As}

Designing Cisco Enterprise Wireless Networks (ENWLSD)

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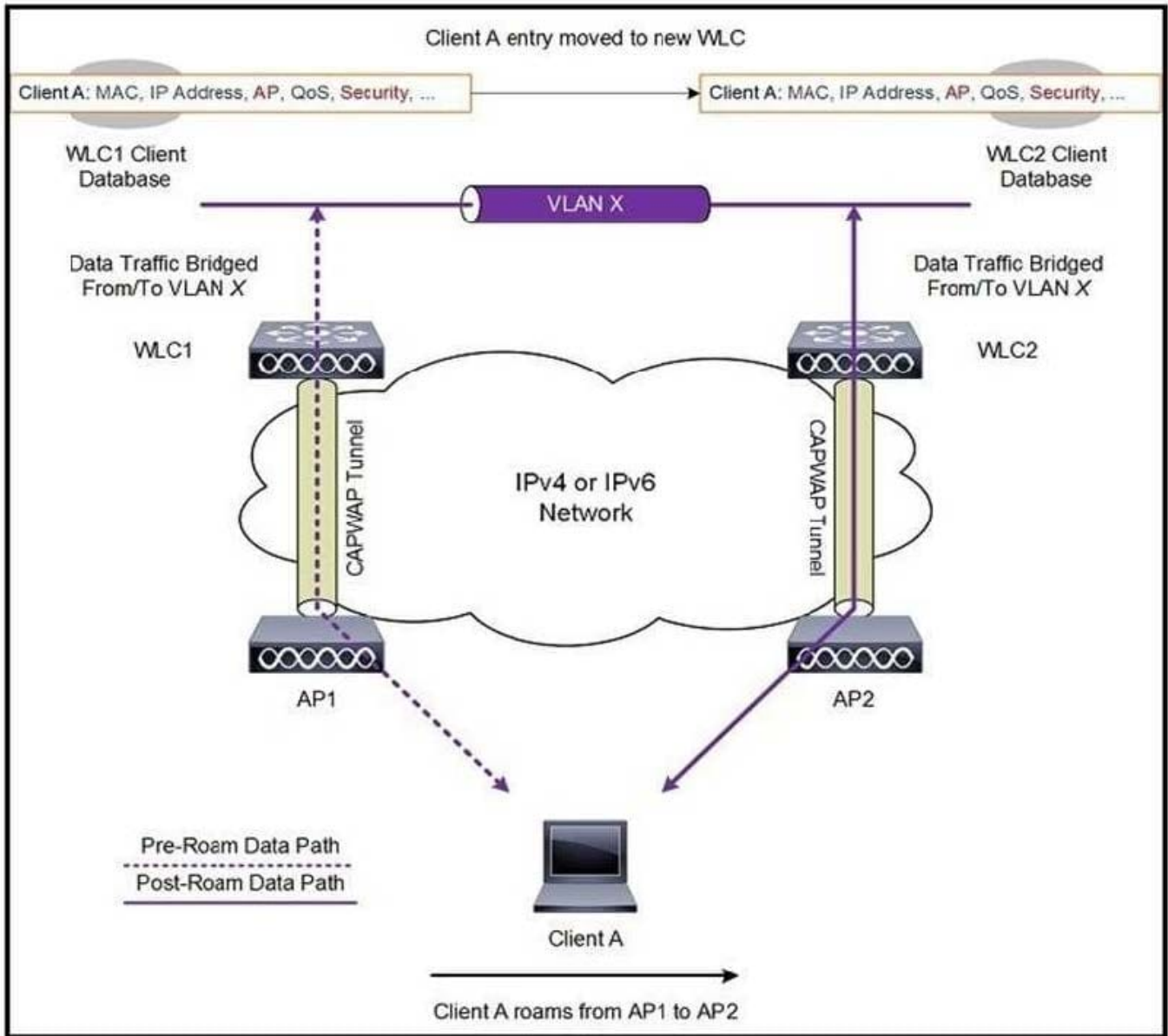
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QUESTION 1

Refer to the exhibit.



A client roams between two APs that are registered to two different controllers, where each controller has an interface in the client subnet. Both controllers are running AireOS. Which scenario explains the client roaming behavior?

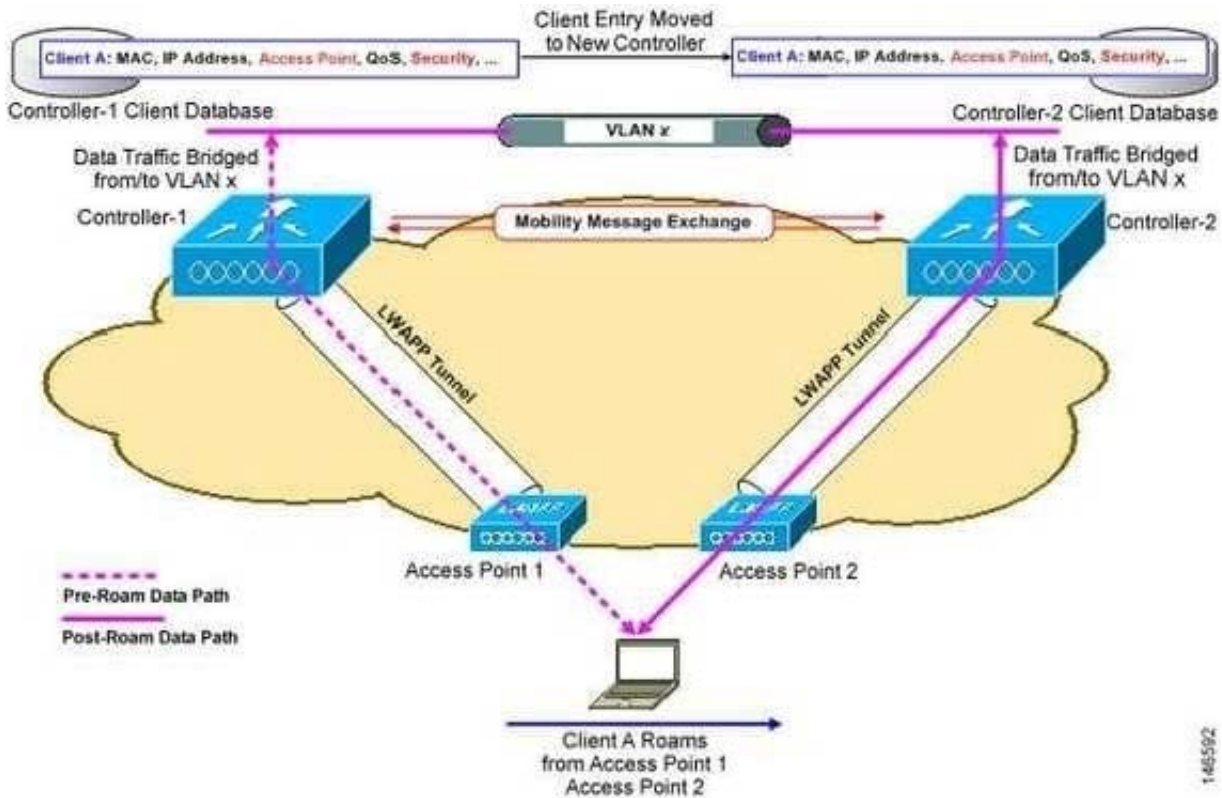
- A. Controllers exchange mobility control messages (over UDP port 16666) and the client database entry is moved from the original controller to the new controller.
- B. Controllers do not exchange mobility control messages (over UDP port 16666) and the client database entry is not moved from the original controller to the new controller.
- C. Controllers exchange mobility control messages (over UDP port 16666) and a new client session is started with the new controller.



D. Controllers exchange mobility control messages (over UDP port 16666) and the client database entry is tunneled from the original controller to the new controller.

Correct Answer: A

Reference:



In this instance controllers exchange mobility control messages (over UDP port 16666) and the client database entry is **moved** from the original controller to the new controller.

QUESTION 2

An engineer must perform a Layer 2 survey for a mining facility. Which type of antenna does the engineer use in the mine shaft?

- A. omnidirectional
- B. patch
- C. internal
- D. dipole

Correct Answer: A



QUESTION 3

A wireless engineer must design mobility between two buildings at a campus site. The engineer has one controller at each site. The engineer is investigating inter-controller CAPWAP data and control traffic. Which two ports must be open? (Choose two.)

- A. 5246
- B. 5247
- C. 8443
- D. 16666
- E. 16667

Correct Answer: CD

QUESTION 4

A wireless engineer is designing a wireless network for a warehouse using access points with internal antennas. Which two elements have a negative effect on the wireless users? (Choose two.)

- A. wireless channels
- B. access point height
- C. client authentication
- D. client authorization
- E. absorption

Correct Answer: BE

Reference: https://www.cisco.com/c/en/us/products/collateral/wireless/aironet-1250-series/design_guide_c07-693245.html#_Toc309331086

QUESTION 5

An engineer at a global enterprise organization must ensure that a mesh deployment has the highest number of channels available to the backhaul, regardless of region deployed, which design meets this requirement?

- A. one controller per continent
- B. one controller per country code
- C. redundant controllers in the most restrictive regulatory domain



D. redundant controllers in the least restrictive regulatory domain

Correct Answer: B

Reference:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-5/config-guide/b_cg85/country_codes.html

QUESTION 6

An engineer is designing a wireless deployment for a university auditorium. Which two features can be used to help deal with the issues introduced by high AP count? (Choose two.)

- A. TSPEC
- B. RXSOP
- C. TPC
- D. LSS
- E. DFS

Correct Answer: CE

Reference: <https://www.cisco.com/c/en/us/support/docs/wireless-mobility/80211/200069-Overview-on-802-11h-Transmit-Power-Cont.html>

QUESTION 7

Which statement about the 9800 Series Wireless Controller mobility tunnel on a Cisco Catalyst 9800 controller is true?

- A. It is an IPsec tunnel with control path only.
- B. It is a CAPWAP tunnel with data path only.
- C. It is a CAPWAP tunnel with control path and data path.
- D. It is an IPsec tunnel with control path and data path.

Correct Answer: C

Reference:

The Cisco Catalyst 9800 Series Wireless Controller mobility tunnel is a CAPWAP tunnel with control path (UDP 16666) and data path (UDP 16667). The control path is DTLS encrypted by default. Data path DTLS can be enabled when you add the mobility peer.

QUESTION 8

A customer has a Wi-Fi network that is designed to support video over Wi-Fi. The Wi-Fi network has good coverage;



however, video multicast traffic is unreliable. Video multicast traffic is reliable on the wired portion of the network. Which performance value indicates an issue with the Wi-Fi multicast traffic?

- A. jitter
- B. packet error rate
- C. throughput
- D. latency

Correct Answer: B

QUESTION 9

Guest anchoring is configured for a newly created SSID for your company. It has been noticed that the mobility tunnels are not up, and that MPING fails from your foreign WLC to the anchor WLC. What is the reason that it is failing?

- A. A rule is needed at the firewall to allow UDP port 16666 for communication to work.
- B. A rule is needed at the firewall to allow UDP port 97 for communication to work.
- C. A rule is needed at the firewall to allow TCP port 97 for communication to work.
- D. A rule is needed at the firewall to allow TCP port 16666 for communication to work.

Correct Answer: A

Reference:

- UDP 16666 for tunnel control traffic
 - IP Protocol 97 for user data traffic
 - UDP 161 and 162 for SNMP
-

QUESTION 10

A customer called with a requirement that internal clients must be on different subnets depending on the building they are in. All access points are operating in local mode and will not be modified, and this is a single controller solution. Which design approach creates the desired result?

- A. Create AP groups for each desired location, map the correct VLANs to the internal SSID, and add the access points for that location.
- B. Create an SSID place it to the desired VLAN under WLANs and configure 802.1x in ISE to assign the correct VLAN based on the SSID from which the client is authenticating
- C. Create FlexConnect groups, place the access points in, and set the correct VLAN to SSID mapping based on location.



D. Create mobility anchors for the SSID and on the controller under the internal SSID create a foreign map to the desired VLAN based on location.

Correct Answer: A

Reference: <https://www.cisco.com/c/en/us/support/docs/wireless-mobility/wireless-vlan/71477-ap-group-vlans-wlc.html>

QUESTION 11

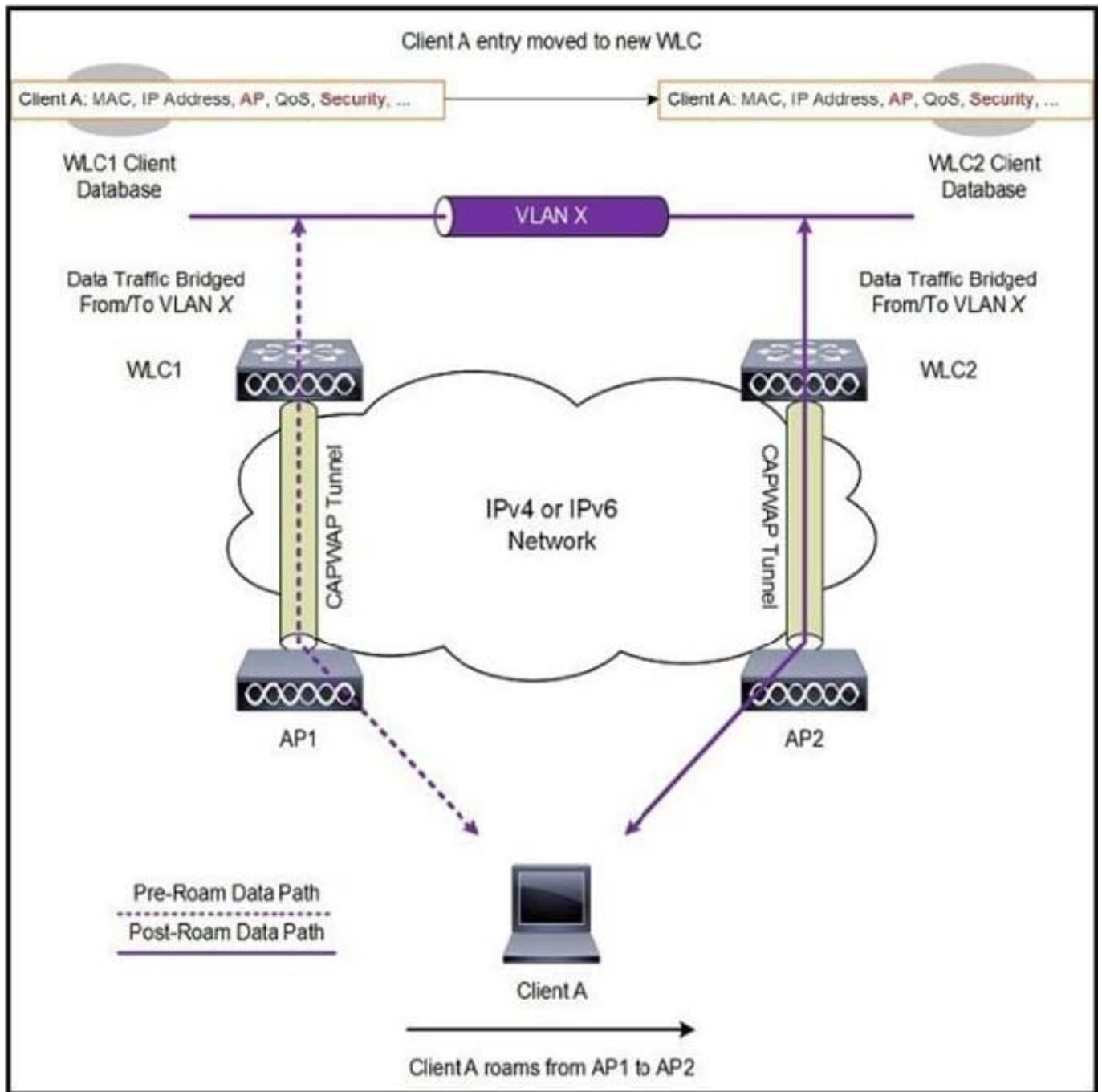
An enterprise is using two wireless controllers to support the wireless network. The data centre is located in the head office Each controller has a corporate WLAN configured with the nameCopr-NET390595865WLC-1 and CoprNET6837I638WLC-2. The APs are installed using a round-robin approach to load balance the traffic. What should be changed on the configuration to optimize roaming?

- A. Move all access points to one controller and use the other as N+1 HA.
- B. Move the controllers to an external data center with higher internet speeds.
- C. Use the same WLAN name for the corporate network on both controllers.
- D. Place the access points per floor on the same controller.

Correct Answer: C

QUESTION 12

Refer to the exhibit.



Client A is roaming from AP1 on WLC1 to AP2 on WLC2. The client roams between two APs registered to two different controllers. The WLAN on the two controllers is on a different subnet. Which scenario explains the client's roaming behavior?

- A. The client database entry is different than that of Layer 2 roam. (Instead of copying, it moves the database to the new controller.)
- B. The client database entry is different than that of Layer 2 roam. (Instead of moving, it copies the database to the new controller.)
- C. The client database entry is different than that of Layer 2 roam because the client database is neither moved nor copied into the new controller.



D. The client database remains in the mobility anchor controller and it is not copied or moved.

Correct Answer: B

QUESTION 13

During a meeting to gather the requirements for a new Wi-Fi network design, the customer requests that 802.11a and 802.11ac clients be able to connect. Which affect does this have to the wireless network?

- A. bigger channel width
- B. lower throughput
- C. 2.4 GHz signal congestion
- D. higher RF reflection

Correct Answer: A

QUESTION 14

An engineer designs a new wireless network that uses a Cisco Catalyst 9800 Series wireless controller. The controller must be in a DMZ. The internal network is to be at the main on-premises data center of the customer. In addition, the customer wants to establish an EoIP tunnel to a Cisco 5520 WLC that is in a regional office. How must this requirement be incorporated into the design?

- A. Use Cisco IOS-XE code that supports encryption of the data plane on the Catalyst 9800 WLC.
- B. Use AirOS code that supports encryption of the control plane on the 5520 WLC.
- C. Use Cisco IOS-XE code that supports encryption of the control plane on the Catalyst 9800 WLC.
- D. Use AirOS code that supports encryption of the data plane on the 5520 WLC.

Correct Answer: C

QUESTION 15

A wireless engineer must design a backhaul link. The engineer has a mesh access point that has a wired connection back to the infrastructure. What must be changed in the AP role before a change is made in the AP mode?

- A. monitor
- B. RAP



C. bridge

D. local

Correct Answer: B

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