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Cisco 300-425 Exam is designed to test the knowledge and skills of network professionals in designing enterprise wireless networks using Cisco technologies. 300-425 exam is part of the Cisco Certified Design Expert (CCDE) certification program and is intended for those who are seeking to advance their careers in network design and architecture.

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Cisco 300-425 Exam, also known as Designing Cisco Enterprise Wireless Networks (ENWLS), is designed for network engineers and wireless network designers who want to validate their skills in designing and implementing Cisco wireless solutions. It is part of the requirements for the Cisco Certified DevNet Professional and Cisco Certified Design Expert (CCDE) certifications.

Cisco Designing Cisco Enterprise Wireless Networks Sample Questions (Q124-Q129):

NEW QUESTION # 124

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

Answer: A

Explanation:

The packet error rate is the key performance value that indicates an issue with Wi-Fi multicast video traffic. Multicast frames are not retransmitted on Wi-Fi, so any packet loss or high error rate will directly cause video artifacts, unreliability, or loss of stream integrity, even if coverage and throughput appear sufficient for other applications.

NEW QUESTION # 125

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

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

Answer: C

Explanation:

Devices that only support 2.4 GHz can increase congestion on this frequency band, especially in environments where multiple devices are present. This is because the 2.4 GHz band has fewer non-overlapping channels compared to 5 GHz, leading to more interference and potential performance issues.

NEW QUESTION # 126

A school deploys a Cisco wireless infrastructure in its classrooms to support a high density of mobile devices. The network administrator wants to bond channels in groups of two and only allow APs to send 802.11 management frames at 24 MB. What should be included in the design to accomplish this objective?

- A. Set the channel width for 802.11b to 40 MHz and set data rates to 24 MB and Supported.
- B. Set the channel width for 802.11b to 40 MHz and set data rates to 24 MB and Mandatory.
- C. Set the channel width for 802.11a to 40 MHz and set data rates to 24 MB and Supported.
- **D. Set the channel width for 802.11a to 40 MHz and set data rates to 24 MB and Mandatory.**

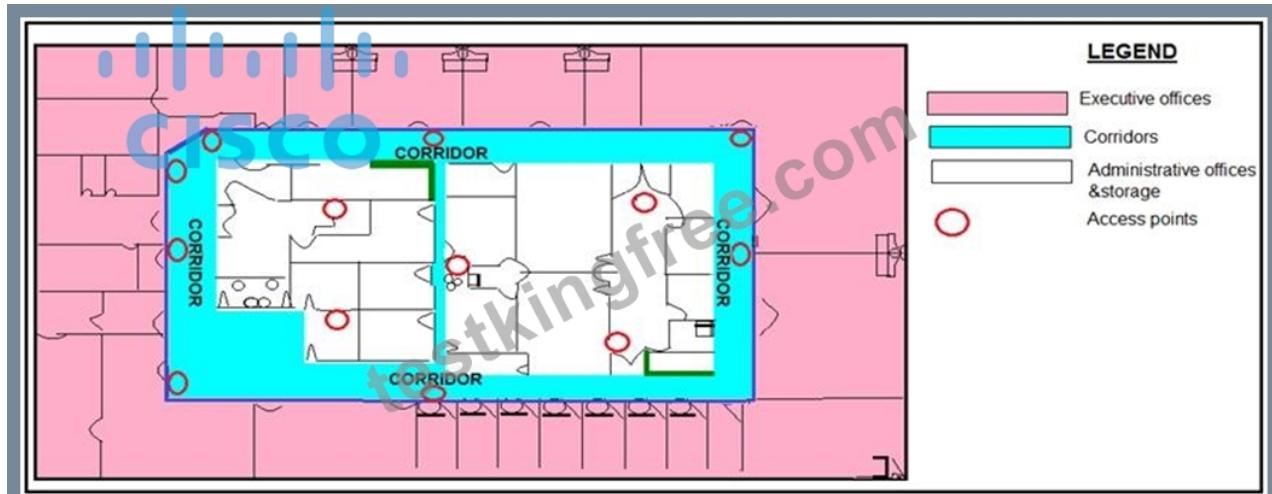
Answer: D

Explanation:

To support a high density of mobile devices and bond channels in groups of two, the channel width for 802.11a should be set to 40 MHz. Setting the data rates to 24 MB and Mandatory ensures that only APs can send 802.11 management frames at this rate, which helps in managing the airtime fairness. Reference: CCNP Enterprise Wireless Design ENWLSD 300-425 and Implementation ENWLSI 300-430 Official Cert Guide.

NEW QUESTION # 127

Refer to the exhibit.



What is the main reason why the Wi-Fi design engineer took a different approach than installing the APs in the offices, even though

that installation provides better coverage?

- A. antenna gain
- B. aesthetics
- C. power supply considerations
- D. transmit power considerations

Answer: D

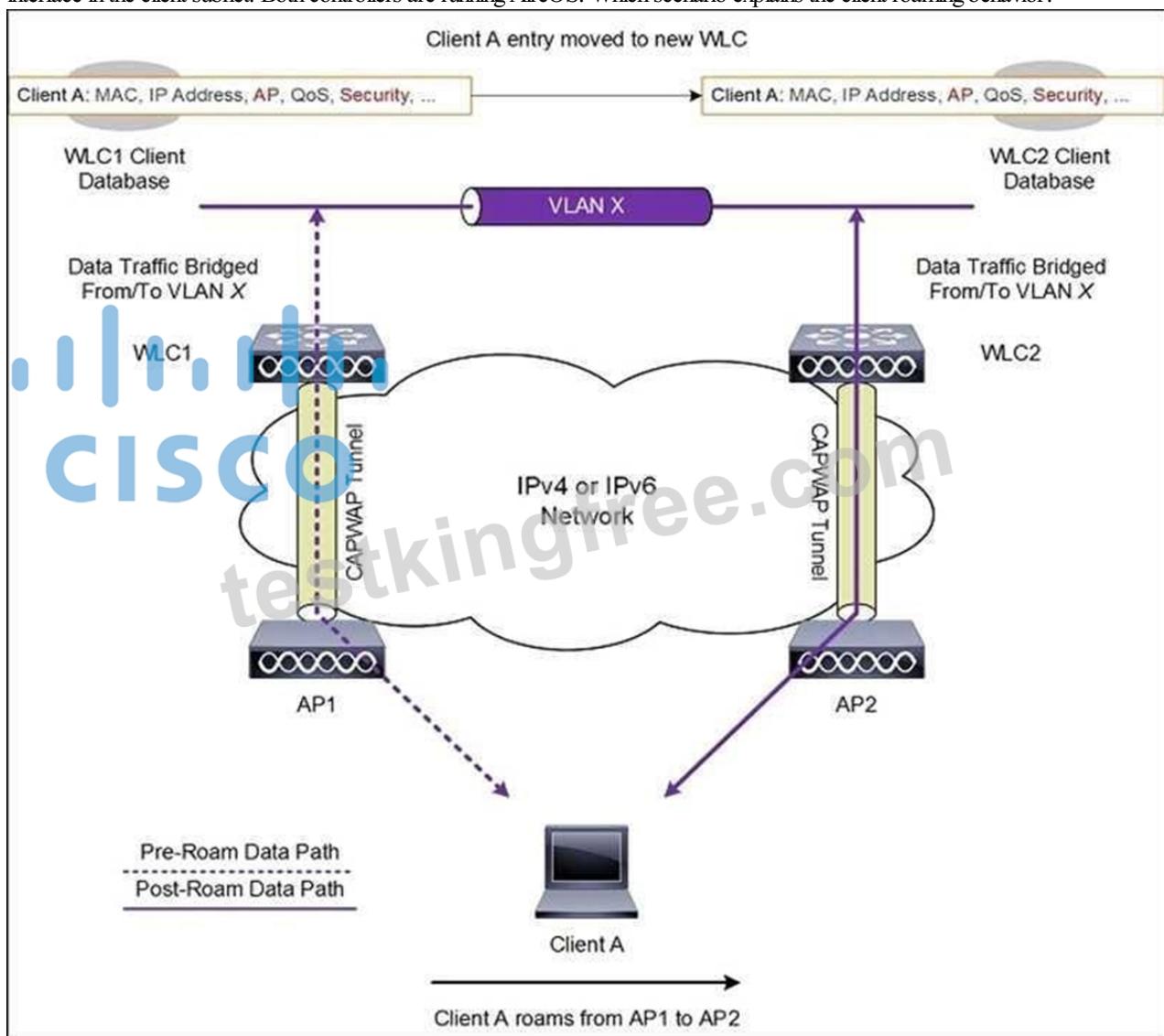
Explanation:

Explanation

<https://www.cisco.com/en/US/docs/solutions/Enterprise/Mobility/emb30dg/RFDesign.html#wp1000551>

NEW QUESTION # 128

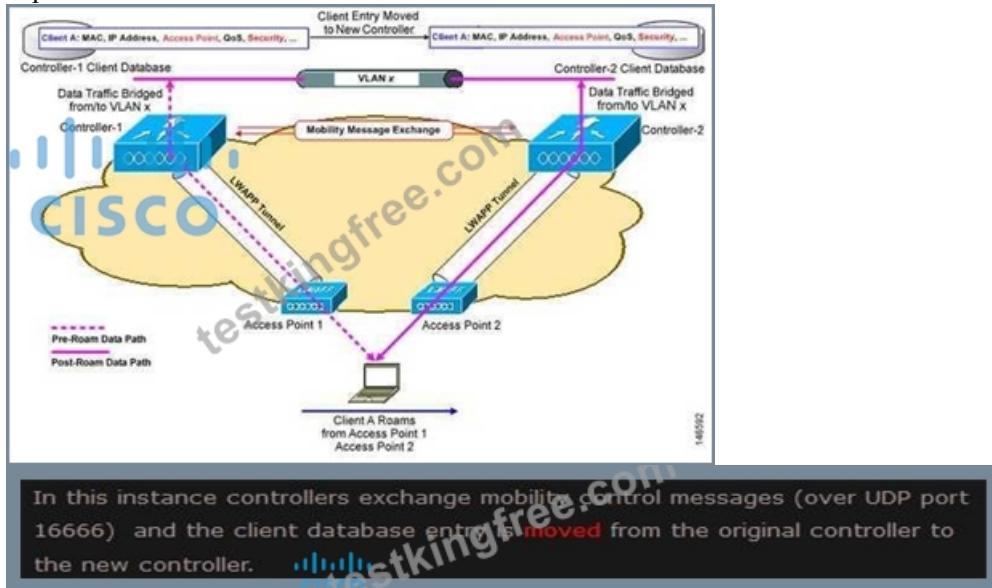
Refer to the exhibit. A client roams between two APs that are registered to two different controllers, where each controller has an interface in the client subnet. Both controllers are running AireOS. Which scenario explains the client roaming behavior?



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

Answer: A

Explanation:



NEW QUESTION # 129

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