Exam Questions 300-425

Designing Cisco Enterprise Wireless Networks (ENWLSD)

https://www.2passeasy.com/dumps/300-425/

NEW QUESTION 1

An engineer has performed a predictive site survey for high-speed data and voice in an indoor office. What is the recommended data rate with -67 dBm signal level for optimal VoWLAN design?

A. 6 Mbps on 802.11 bgn
B. 24 Mbps on 802.11 bgn
C. 12 Mbps on 802.11 an
D. 24 Mbps on 802.11 an

Answer: B

Explanation:

The -67 dBm measurement has been used for years for 11b phone clients from many vendors. Tests indicate that this same rule of thumb measurement works well for 11g and 11a phone clients.

NEW QUESTION 2

A customer is looking for a network design with Cisco Hyperloctation using AP4800 for location tracking via a custom mobile app Issues appeared in the past with refresh rates for location updates. What needs to be implemented to meet these requirements?

A. Cisco CMX SDK in the location app
B. redundant CMX and fetch location in round-robin fashion.
C. device Bluetooth via the app
D. Cisco FastLocate technology

Answer: D

NEW QUESTION 3

A network engineer is working on a design for a wireless network that must support data, voice, and location services. To support these services, which access point placement must the engineer use?

A. corner only
B. perimeter and corner
C. perimeter only
D. indoor and outdoor

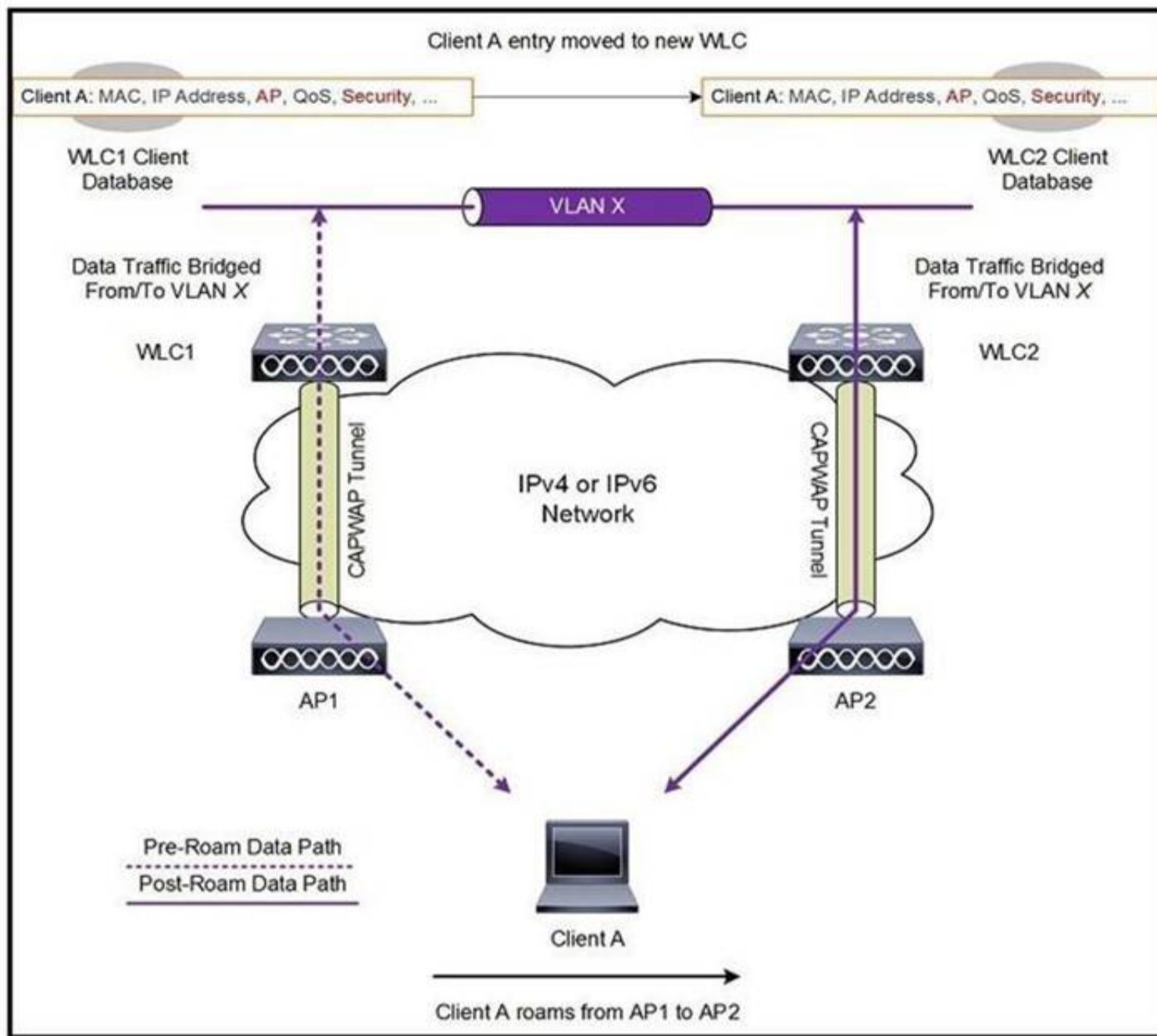**Answer:** B

Explanation:

In a location-ready design, it is important to ensure that access points are not solely clustered in the interior and toward the center of floors. Rather, perimeter access points should complement access points located within floor interior areas. In addition, access points should be placed in each of the four corners of the floor, and at any other corners that are encountered along the floor perimeter. These perimeter access points play a vital role in ensuring good location fidelity within the areas they encircle, and in some cases may participate in the provisioning of general voice or data coverage as well.

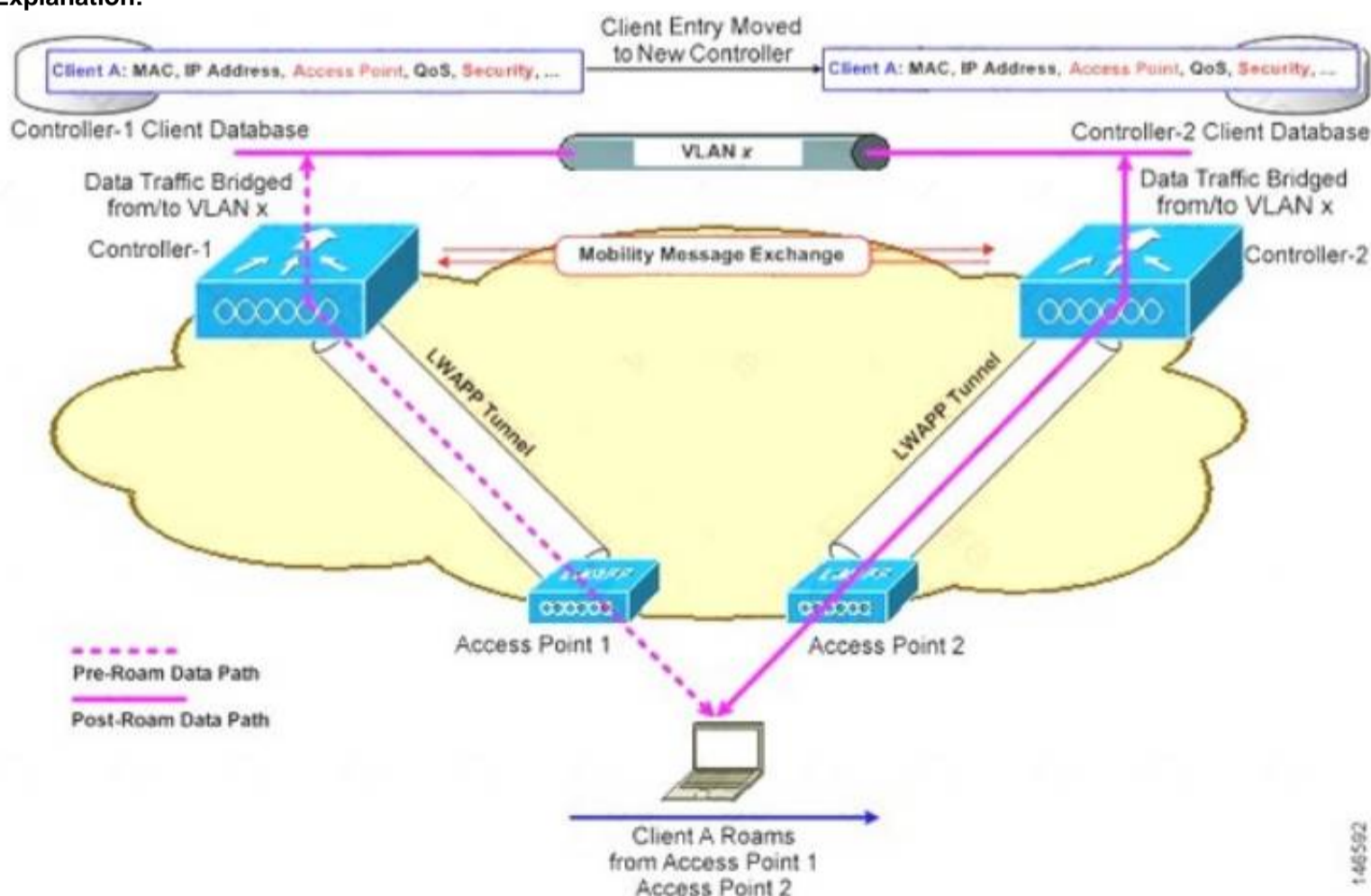**NEW QUESTION 4**

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) andthe 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.

Answer: A

Explanation:

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.

NEW QUESTION 5
An engineer must speed up the reauthentication delays that are being experienced on the wireless infrastructure by deploying a key-caching mechanism. Which mechanism must be configured?

A. PEAP
B. FT
C. PMF
D. GTK-randomization

Answer: B

Explanation:

802.11r, which is the IEEE standard for fast roaming, introduces a new concept of roaming where the initial handshake with the new AP is done even before the client roams to the target AP, which is called Fast Transition (FT). The initial handshake allows the client and APs to do the Pairwise Transient Key (PTK) calculation in advance. These PTK keys are applied to the client and AP after the client does the reassociation request or response exchange with new target AP.

NEW QUESTION 6
A university is in the process of designing a wireless network in an auditorium that seats 500 students and supports student laptops. Which design methodology should the university implement in the auditorium?

A. roaming design model
B. voice design model
C. location design model
D. high-density design model

Answer: B

Explanation:
 https://www.cisco.com/c/dam/en_us/solutions/industries/docs/education/cisco_wlan_design_guide.pdf

NEW QUESTION 7
What causes the most signal attenuation, based on the wireless design tools?

A. cinder block wall
B. metal door
C. glass wall
D. office window

Answer: B

Explanation:

It is important to note that metal chair legs and desk components will interact with the antenna of the AP and change the pattern of the radiation. Surveying the results of placement decisions with a good tool is necessary

NEW QUESTION 8
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 Copr-NET6837l638WLC-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. Use the same WLAN name for the corporate network on both controllers.
C. Use the same WLAN name for the corporate network on both controllers.
D. Place the access points per floor on the same controller.

Answer: A

NEW QUESTION 9
An engineer must create data-link redundancy for the company's Cisco Wireless LAN Controller. The engineer has decided to configure LAG-based redundancy instead of port-based redundancy. Which three features of LAG-based redundancy influenced this decision? (Choose three.)

A. Packets are always sent out on the same port they are received on.
B. All interface traffic passes as long as one port is up.
C. The same port has multiple untagged dynamics interfaces.
D. Interface connection to two separate nonstacked switches is available.
E. Full bandwidth of all links is available.
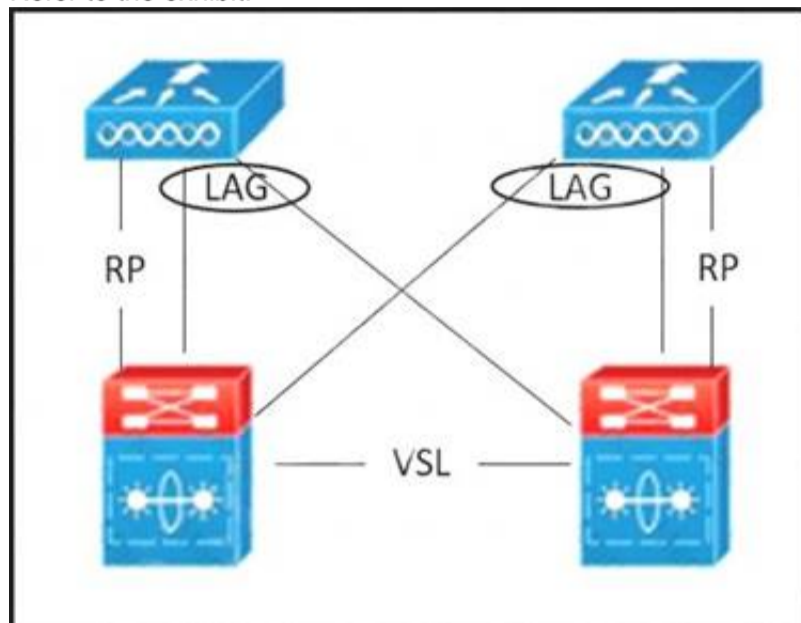
F. Ports are grouped into multiple LAGs.

Answer: ABF

Explanation:
https://community.cisco.com/t5/wireless-mobility-documents/lag-link-aggregation/ta-p/3128669

NEW QUESTION 10
Refer to the exhibit.

A WLC SSO pair is set up. Which failure scenario causes a split-brain scenario?

A. RP is down.
B. Two distribution ports on the active WLC are down.
C. VSL is down.
D. One distribution port on the active WLC is down.

Answer: C

NEW QUESTION 10
An engineer is designing a new wireless network. The network needs to meet these requirements:
• support a high wireless client concentration
• support data over wireless
• support voice over wireless
• avoid interference

Which design approach should be taken?

A. 5 GHz frequency band with channel bonding, to support 40 MHz channels
B. 5 GHz frequency band without channel bonding, to support 20 MHz channels
C. 5 GHz frequency band with channel bonding, to support 80 MHz channels.
D. 2.4 GHz frequency band without channel bonding, to support 20 MHz channels

Answer: D

Explanation:
https://www.cisco.com/c/en/us/support/docs/wireless/4400-series-wireless-lan-controllers/108184-config-802-1

NEW QUESTION 12
An engineer has deployed a group of APs in an auditorium and notices that the APs are showing high cochannel interference. Which profile can be used to adjust the parameters for these high-density APs?

A. QoS profile
B. AVC profile
C. RF profile
D. ISE profile

Answer: C

Explanation:

Information About RF Profiles

RF Profiles allows you to tune groups of APs that share a common coverage zone together and selectively change how RRM will operates the APs within that coverage zone.

For example, a university might deploy a high density of APs in an area where a high number of users will congregate or meet. This situation requires that you manipulate both data rates and power to address the cell density while managing the co-channel interference. In adjacent areas, normal coverage is provided and such manipulation would result in a loss of coverage.

NEW QUESTION 17
A wireless engineer is using Ekahau site survey to validate that an existing wireless network is operating as expected, which type of survey should be using to

identify the end-to-end network performance?

A. GPS assisted
B. Spectrum analysis
C. Passive
D. Active ping

Answer: B

Explanation:
https://support.ekahau.com/hc/en-us/articles/115004973067-Spectrum-Analysis-Surveys

NEW QUESTION 19
An engineer is configuring a centralized set of controllers for separate facilities. Which two Cisco wireless architectures must be used to ensure flexible sizing of WLAN to VLAN mappings? (Choose two.)

A. interface group
B. mobility group
C. AP group
D. controller group
E. RF group

Answer: BC

NEW QUESTION 22
A network engineer is preparing for an office site survey with a height of 2.5 meters. Which three components are recommended to complete the survey? (Choose three.)

A. Use a battery pack to power APs
B. Use a drawing of the office space to draw AP and client placements.
C. Use DoS attack on APs while measuring the throughput.
D. Use APs with directional antennas.
E. Use APs with external antennas.
F. Use APs with built-in antennas.

Answer: ABF

Explanation:
https://www.cisco.com/c/en/us/td/docs/wireless/technology/mesh/8-4/b_mesh_84/Site_Preparation_and_Plannin

NEW QUESTION 23
A company wants to replace its existing PBX system with a new VoIP System that will include wireless IP phones. The CIO has concerns about whether the company's existing wireless network can support the new system. Which tool in Cisco Prime can help ensure that the current network will support the new phone system?

A. Location Readiness
B. Site Calibration
C. Map Editor
D. Voice Readiness

Answer: D

Explanation:
The VoWLAN Readiness (voice readiness) tool allows you to check the RF coverage to determine if it is sufficient for your voice needs.

NEW QUESTION 25
A high-density wireless network is designed. Which Cisco WLC configuration setting must be incorporated in the design to encourage clients to use the 5 GHz spectrum?

A. RRM
B. Cisco centralized key management
C. Band select
D. Load balancing

Answer: C

NEW QUESTION 27
An engineer has configured guest anchoring for a newly created SSD however, the mobility tunnels are not up, and EPING is failing from the foreign WLC to the anchor WLC. Which traffic flow must be allowed at the firewall to enable the communication?

A. UDP port 16666
B. IP protocol 97
C. UDP port 97
D. TCP port 97

Answer: A

Explanation:

The only special implementation of the WLC in CCKM is that WLCs exchange client PMK via mobility packets, such as UDP 16666.

NEW QUESTION 28
A wireless engineer is designing a wireless network to support real-time applications over wireless. Which IEEE protocol must the engineer enables on the WLC so that the number of packets that are exchanged between an access point and client are reduced and fast roaming occurs?

A. 802.11w
B. 802.11r
C. 802.11i
D. 802.11k

Answer: D

Explanation:

802.11r reduces the number of packets that are exchanged between the client and an AP. The client preauthenticates to the AP it will roam to before actually roaming. This means the roam itself occurs faster because the AP already has the client authentication credentials cached, resulting in fewer packets required between the client and the AP.

NEW QUESTION 31
An engineer is conducting a Layer 2 site survey. Which type of client must the engineer match to the survey?

A. best client available
B. phone client
C. normal client
D. worst client available

Answer: D

Explanation:

https://www.cisco.com/c/en/us/support/docs/wireless/5500-series-wireless-controllers/116057-site-survey-g

NEW QUESTION 32
Which three pieces of equipment are needed to conduct a fully measured wireless survey? (Choose three.)

A. PoE battery
B. spirit level
C. access point
D. tall tripod
E. goggles
F. ladder

Answer: ACD

Explanation:
https://www.cisco.com/c/en/us/td/docs/wireless/technology/mesh/81/design/guide/b_mesh_81/Site_Preparation_

NEW QUESTION 35
The wireless team must configure a new voice SSID for optimized roaming across multiple WLCs with Cisco 8821 phones. Which two settings accomplish this goal? (Choose two.)

A. Configure mobility groups between WLCs.
B. Use Cisco Centralized Key Management for authentication.
C. Configure AP groups between WLCs.
D. Configure AVC profile on new SSID.
E. Use AVC to tag traffic voice traffic as best effort.

Answer: AB

NEW QUESTION 39
Why is 802.11a connectivity reduced in an X-ray room?

A. X-rays create significant non-Wi-Fi interference on the 802.11a band.
B. X-rays impact the 802,11a UNll-2 channels that cause access points to dynamically change channels.
C. X -rays within these rooms cause multipath issues.
D. X-ray rooms exhibit increased signal attenuation.

Answer: A

Explanation:

portable X-ray machines, sending high-resolution images, sometimes in real time, echography machines, and electrocardiography [ECG] machines). These devices may also use the same spectrum as Wi-Fi but with other protocols and, therefore, become sources of interference for your system.

NEW QUESTION 42
Two cisco 5520 wireless LAN controllers are managing all access points throughout the network. The WLCs are in different locations to provide geographical redundancy a mobility group has been configured on both WLCs and has a UP status on both controllers. The Aps in location A are statically configured to use controller A as the primary and controller B as the secondary. If the WLC in location A goes offline. The Aps successfully join the WLC in location, but they do not fail over to their primary configured controller. Which configuration task fixes the issue?

A. Configure the WLC in location A as primary using the CAPWAP AP Controller IP Address command on all the location A Access points.
B. Use DHCP Option 43 and specify WLC in location A as primary.
C. Enable AP fallback globally on the WLC
D. Change the AP Failover Priority to critical.

Answer: C

NEW QUESTION 46
Drag and drop the characteristics from the left onto the correct functionalities on the right.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
https://www.cisco.com/c/en/us/td/docs/wireless/controller/7-4/configuration/guides/consolidated/b_cg74_CONS

NEW QUESTION 49
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