

## 300-425<sup>Q&As</sup>

Designing Cisco Enterprise Wireless Networks (ENWLSD)

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**QUESTION 1**

An engineer must perform a predictive design for a wireless network. The customer has devices that can tolerate at most 100 ms of delay when roaming. Which design criteria must be used?

- A. location
- B. data
- C. video
- D. voice

Correct Answer: D

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**QUESTION 2**

A customer has multiple WLCs running in N+1 redundancy with APs load balanced between the WLCs. The customer performs AP failover testing between the WLCs and notices that some of the APs do not move back to their primary WLC after it recovers. What are two points that must be addressed in the design? (Choose two.)

- A. DHCP Option 43 information is incorrect.
- B. APs do not have their secondary WLC information configured correctly.
- C. APs failover priorities are set to Low.
- D. AP Fallback is not enabled on one of the WLCs.
- E. APs do not have their primary WLC information configured correctly.

Correct Answer: BE

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**QUESTION 3**

Refer to the exhibit.

Global Configuration	
Redundancy Mgmt Ip #	172.25.44.4
Peer Redundancy Mgmt Ip	172.25.44.5
Redundancy port Ip	169.254.44.4
Peer Redundancy port Ip	169.254.44.5
Redundant Unit	Primary
Mobility Mac Address	60:73:5C:D1:76:00
Keep Alive Timer (100 - 1000) #	100 milliseconds
Keep Alive Retries (3 - 10) #	3
Peer Search Timer (60 - 300)	120 seconds
Management Gateway Failover	Enabled
SSO	Disabled

An enterprise is using wireless as the main network connectivity for clients. To ensure service continuity, a pair of controllers will be installed in a datacentre. An engineer is designing SSO on the pair of controllers. What needs to be included in the design to avoid having the secondary controller go into maintenance mode?

- A. The Keep alive timer is too low, which causes synchronization problems.
- B. The connection between the redundancy ports is missing.
- C. The redundancy port must be the same subnet as the redundancy mgmt.
- D. The Global Configuration of SSO is set to Disabled on the controller.

Correct Answer: B

Reference: [https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-7/High\\_Availability\\_DG.html](https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/8-7/High_Availability_DG.html)

#### QUESTION 4

A wireless engineer is performing a post verification of a wireless network. Which two metrics does the engineer verify to ensure that the wireless network can support voice services? (Choose two.)

- A. The coverage area must have a noise floor that does not exceed -87 dBm.
- B. The client device must have at least an -67 dBm RSSI.
- C. The rate of retransmitted packets must be 15 percent or below.
- D. The rate of retransmitted packets must be 20 percent or below.
- E. The client device must have at least an -65 dBm RSSI.

Correct Answer: BD

Reference:

1. The optimal VoWLAN Cell Edge recommendation is -67 dBm.
  5. Retransmissions should be kept under 20 percent.
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#### QUESTION 5

How are mobility groups created, excluding mobility anchors?

- A. The WLCs do not have to be of the same model or type to be a member of a mobility group; however, each member should be running different software versions.
- B. A mobility group does not require all WLCs in the group to use the same virtual IP address.
- C. Each WLC must use the same mobility domain name and be defined as a peer in each other's static mobility members list.
- D. If WLCs with HA SSO are deployed, each WLC in the WLC HA pair is considered separately as a mobility peer.

Correct Answer: D

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#### QUESTION 6

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

Correct Answer: C

Reference:

#### 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 operate 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.

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#### QUESTION 7

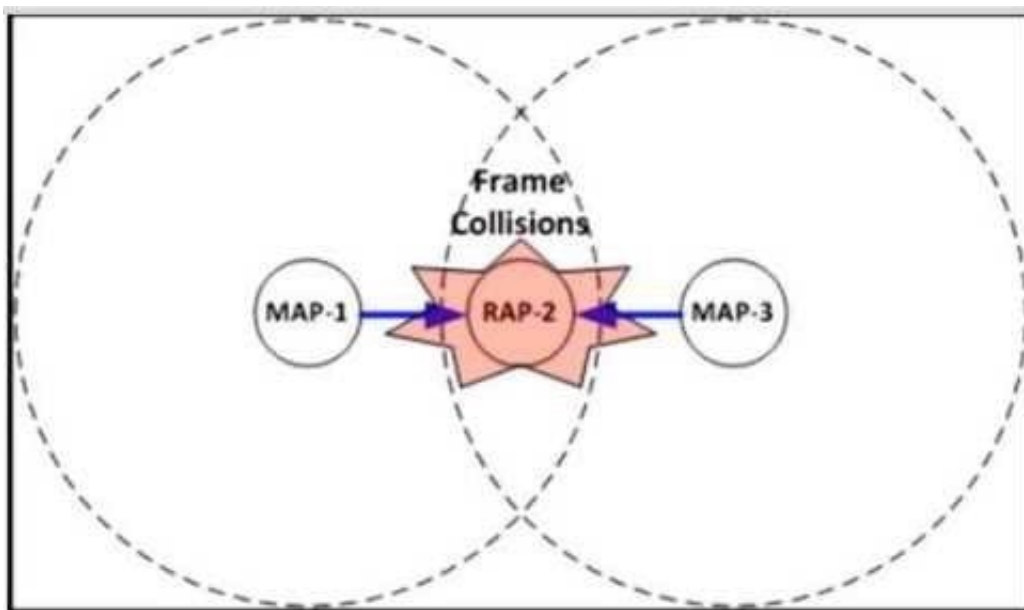
A customer deploys a new Cisco high-density wireless network within the open areas of a mall to provide free public wireless on 5 GHz. The existing mall tenants have their own wireless networks that are independently managed. Which design approach minimizes channel utilization for the public network?

- A. Enable all 5-GHz channels that are supported by the region and use 40-MHz channels.
- B. Enable UNII-1 channels only and use 80-MHz channels.
- C. Enable UNII-1 channels only and use 20-MHz channels.
- D. Enable all 5-GHz channels that are supported by the region and use 20-MHz channels.

Correct Answer: C

### QUESTION 8

Refer to the exhibit.



During a post Mesh deployment survey, an engineer notices that frame collisions occur when MAP-1 and MAP-3 talk to RAP-2. Which type of issue does the engineer need to address in the design?

- A. co-channel interference
- B. backhaul latency
- C. hidden node
- D. exposed node

Correct Answer: C

Reference: <https://www.cisco.com/en/US/docs/solutions/Enterprise/Mobility/emob30dg/WiMesh.pdf>

### QUESTION 9

A customer is concerned about mesh backhaul link security. Which level of encryption does the backhaul link use?

- A. hash
- B. AES
- C. WEP
- D. 3DES

Correct Answer: B

Reference:

In a Cisco wireless backhaul network, traffic can be bridged between MAPs and RAPs. This traffic can be from wired devices that are being bridged by the wireless mesh or CAPWAP traffic from the mesh access points. This traffic is always AES encrypted when it crosses a wireless mesh link such as a wireless backhaul.

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### QUESTION 10

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 dynamic 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.

Correct Answer: ABF

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

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### QUESTION 11

A wireless deployment in a high-density environment is being used by vendors to process credit card payment transactions via handheld mobile scanners. The scanners are having problems roaming between access points in the environment. Which feature on the wireless controller should have been incorporated in the design?

- A. RX SOP
- B. 802.11w
- C. AP Heartbeat Timeout
- D. Application Visibility Control

Correct Answer: A

Reference:

[https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-5/configguide/b\\_cg85/advanced\\_wireless\\_tuning.html](https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-5/configguide/b_cg85/advanced_wireless_tuning.html)

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## QUESTION 12

An engineer is designing a wireless network to support hyperlocation in an environment that already has APs installed. During the survey, the engineer notices that the APs are pointing in different directions. What is the recommended way to align the APs to easily determine AP Azimuth, X-Y, and ceiling height information, and minimize confusion and user-entered errors?

- A. APs must be aligned pointing toward the nearest wall.
- B. APs must be aligned pointing toward each other.
- C. APs must be aligned in the same direction.
- D. APs can be aligned all four ways.

Correct Answer: C

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## QUESTION 13

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

Correct Answer: C

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## QUESTION 14

An engineer added an AP to a deployment after a post-installation site survey. The engineer then notices an increase in co-channel interference and retransmissions. Which two features help mitigate the issue? (Choose two.)

- A. Cisco Compatible Extensions
- B. Transmit Power Control
- C. Enhanced Distributed Channel Access
- D. Coverage Hole Detection
- E. Dynamic Channel Assignment

Correct Answer: BE

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## QUESTION 15

An engineer is designing a network deployment for a technology company. The company has four buildings with access points that must provide seamless wireless coverage and client roaming. The customer data center must have two WLCs and the core switches for the network. Which type of wireless architecture must be used?

- A. cloud
- B. centralized
- C. autonomous
- D. distributed

Correct Answer: B

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