

300-425^{Q&As}

Designing Cisco Enterprise Wireless Networks (ENWLSD)

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QUESTION 1

A customer has a centralized wireless deployment with N+1 high availability and few open authentication SSIDs configured. After failover, all APs are broadcasting all SSIDs, but the clients are assigned IP addresses from a different subnet. The WLANs on both WLCs are configured with the same dynamic interfaces. Which feature must be incorporated in the wireless design of the second controller?

- A. RF Profile
- B. AP Groups
- C. VLAN Select
- D. AAA Override

Correct Answer: C

QUESTION 2

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

QUESTION 3

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 UNII-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.

Correct Answer: D

QUESTION 4

An engineer is trying to configure the APs installed in a new auditorium to use 40 MHz channels with high data rates

and lower TX power. The APs in the building hallway must use lower-density design settings configured for the rest of the building. Which two configurations achieve this design? (Choose two.)

- A. TPC
- B. DCA
- C. AP group
- D. RRM
- E. RF profile

Correct Answer: CE

QUESTION 5

An engineer is designing a wireless network to support high availability. The network will need to support the total number of APs and client SSO. Live services should continue to work without interruption during the failover Which two requirements need to be incorporated into the design to meet these needs? (Choose two.)

- A. redundant WLC
- B. controller high availability pair with one of the WLCs having a valid AP count license
- C. 10 sec RTT
- D. back-to-back direct connection between WLCs
- E. WLC 7.5 code or more recent

Correct Answer: BD

Reference:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/7-5/High_Availability_DG.html#pgfId-44074

QUESTION 6

What is the attenuation value of a human body on a wireless signal?

- A. 3 dB
- B. 4 dB
- C. 6 dB
- D. 12 dB

Correct Answer: A

QUESTION 7

A customer has a central Cisco WLC that manages APs in FlexConnect mode. The wireless infrastructure supports multiple small branches. One branch deploys new CCX wireless phones that are authenticated by a central Cisco ISE via PEAP/MSCHAPv2, and traffic is switched locally. The customer must reduce the number of full authentication requests and optimize roaming for the new phones. Which action accomplishes the requirement?

- A. Enable CCKM on the voice SSID and add APs to a FlexConnect group.
- B. Enable Aironet IE on the voice SSID and add APs to an AP group.
- C. Enable Aironet IE on the voice SSID and add APs to a FlexConnect group.
- D. Enable CCKM on the voice SSID and add APs to an AP group.

Correct Answer: C

QUESTION 8

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

Correct Answer: B

Reference: <https://www.cisco.com/c/en/us/support/docs/wireless/4400-series-wireless-lan-controllers/108184-config-802-11n-wlc.html>

QUESTION 9

An engineer performs a wireless site survey of a multi-floor building for 2.4-GHz and 5-GHz bands. The customer wants to identify non-802.11 sources of interference. Which survey measurement must be included in the survey?

- A. channel utilization
- B. spectrum analysis
- C. signal-to-noise ratio

D. co-channel interference

Correct Answer: B

QUESTION 10

During a client roaming event, which device is responsible for communicating the new Layer 2 EID mapping of a wireless supplicant to the fabric domain?

- A. WLC
- B. BN
- C. CP2
- D. CP1

Correct Answer: A

Reference: <https://www.cisco.com/c/dam/en/us/td/docs/cloud-systems-management/network-automation-and-management/dna-center/deploy-guide/cisco-dna-center-sd-access-wl-dg.pdf>

QUESTION 11

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

Correct Answer: BC

QUESTION 12

An engineer is designing a wireless network that will support many different types of wireless clients. When conducting the survey, which client must be used to ensure a consistent experience for all of the wireless clients?

- A. the client that has the highest RF properties
- B. the client that is used most by the company
- C. the client that is used least by the company
- D. the client with the worst RF characteristics

Correct Answer: D

Reference:

With the proliferation of clients with varying wireless capabilities, it is important to survey for the 'worst' clients in order to ensure a consistent experience across all your clients once your wireless network is in production.

https://documentation.meraki.com/MR/WiFi_Basics_and_Best_Practices/Conducting_Site_Surveys_with_MR_Access_Points

QUESTION 13

A customer Wi-Fi deployment is experiencing the sticky client problem and must enable the optimized roaming feature. The wireless clients have valid security credentials for an SSID and can see an AP that offers that SSID to join. What must be configured to enhance roaming?

- A. RSSI threshold
- B. disable DFS
- C. disable 802.11k
- D. enable data rates

Correct Answer: A

QUESTION 14

An engineer is setting up the WLC to support a high-density design for a lecture hall. The engineer must modify the existing high-density RF profile to obtain a smaller cell size. Also, the clients must connect to the nearest AP using the highest possible data rates. Which setting allows this design?

- A. AP load balance
- B. client distribution
- C. power threshold
- D. RX-SOP threshold

Correct Answer: C

QUESTION 15

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

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