



Cisco

Exam Questions 300-425

Designing Cisco Enterprise Wireless Networks (ENWLSD)

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NEW QUESTION 1

DRAG DROP

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

Select and Place:

complex configuration on the Cisco WLC and infrastructure	Multiple AP-Manager Interfaces
achieves optimal AP join process with src-dst-ip load-balancing	
simple configuration on the Cisco WLC and infrastructure	LAG
avoids single point of failure on neighbor switches	

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

complex configuration on the Cisco WLC and infrastructure	Multiple AP-Manager Interfaces
achieves optimal AP join process with src-dst-ip load-balancing	
simple configuration on the Cisco WLC and infrastructure	LAG
avoids single point of failure on neighbor switches	

NEW QUESTION 2

Which UDP port numbers are used for exchange mobility packets in an AireOS wireless deployment?

- A. UDP 16666 for control plane, EoIP (IP protocol 97) for data plane
- B. UDP 16668 for control plane, UDP 16667 for data plane
- C. UDP 16667 for control plane, UDP 16666 for data plane
- D. UDP 16666 for control plane, UDP 16667 for data plane

Answer: D

NEW QUESTION 3

An engineer must ensure that the new wireless LAN deployment can support seamless roaming between access points using a standard based on an amendment to the 802.11 protocol. Which protocol must the engineer select?

- A. 802.11i
- B. 802.11ac
- C. 802.11r
- D. 802.11e

Answer: C

NEW QUESTION 4

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. Band Select
- B. RRM
- C. Cisco Centralized Key Management
- D. load balancing

Answer: A

NEW QUESTION 5

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

NEW QUESTION 6

A wireless engineer must optimize RF performance for multiple buildings with multiple types of construction and user density. Which two actions must be taken? (Choose two.)

- A. Configure FlexConnect groups for each building.
- B. Configure WMM profiles for each building.
- C. Configure AP groups for each area type.
- D. Configure RF profiles for each area type.
- E. Enable DTPC on the network.

Answer: CD

NEW QUESTION 7

A wireless engineer is hired to design a network for a technology company. The company campus has four buildings and a warehouse with access points that provide full wireless coverage as well as a pair of WLCs located in the core of the network. Which type of wireless architecture is being used?

- A. unified deployment
- B. autonomous deployment
- C. centralized deployment
- D. distributed deployment

Answer: C

NEW QUESTION 8

Where must the APs be mounted when used in a high-density wireless network to provide 6 dB to 20 dB of attenuation to a cell?

- A. in the aisle
- B. under the seat
- C. above the stage
- D. under the stage

Answer: B

NEW QUESTION 9

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

Answer: B

NEW QUESTION 10

A wireless network consultant must assess an existing wireless LAN controller. Which section must the consultant check before replacing the old APs with APs that are IEEE 802.11ac-capable?

- A. number of AP licenses
- B. controller PSU
- C. throughput capacity
- D. software version

Answer: A

NEW QUESTION 10

Clustering Cisco WLCs into a single RF group enables the RRM algorithms to scale beyond the capabilities of a single Cisco WLC. How many WLC and APs in an RF group can the controller software scale up to in WLC release 8.9 depending on the platform?

- A. up to 20 WLCs and 1000 APs
- B. up to 20 WLCs and 3000 APs
- C. up to 20 WLCs and 4000 APs
- D. up to 20 WLCs and 6000 APs

Answer: D

NEW QUESTION 12

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.

Answer: ABF

NEW QUESTION 14

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

NEW QUESTION 16

A customer is running a guest WLAN with a foreign/export-anchor setup. There is one anchor WLC in the US and two in Europe. Anchor WLC priorities are used to prefer local anchors. During a routine network audit, it is discovered that a large number of guest client sessions in the US are anchored to the WLCs in Europe. Which reason explains this behavior?

- A. The foreign WLC failed and recovered.
- B. The US anchor WLC failed and recovered.
- C. The US anchor WLC is anchored to itself with a priority value of zero.
- D. The anchor WLC is in the same mobility group.

Answer: B

NEW QUESTION 21

An engineer has successfully configured high availability and SSO using two Cisco 5508 Wireless LAN Controllers. The engineer can access the Active Primary WLC, but the Secondary Standby WLC is not accessible. Which two methods allow access to the standby unit? (Choose two.)

- A. via the console connection
- B. SSH to the redundancy management interface of the primary WLC
- C. SSH to the service port interface
- D. SSH to the virtual interface of the secondary WLC
- E. SSH to the management interface of the primary WLC

Answer: AC

NEW QUESTION 26

As part of a wireless site survey in a hospital, an engineer needs to identify potential Layer 1 interferers. In which two areas is the engineer most likely to find sources of 2.4 GHz and 5 GHz RF noise? (Choose two.)

- A. magnetic resonance imaging
- B. kitchen
- C. Gamma Knife radiation treatment
- D. X-ray radiography
- E. patient room

Answer: BE

NEW QUESTION 28

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

Answer: BE

NEW QUESTION 32

A customer has noticed that Client Band Select is enabled and no clients are utilizing the 5 GHz band. Which three parameters must be met to ensure that wireless clients use the 5 GHz band? (Choose three.)

- A. Ensure that channel bonding is enabled on the WLAN.
- B. Ensure that the co-channel interference has not exceeded -85 dBm.

- C. Ensure tha the UNII-2 extended channels are enabled on the 802.11a radios.
- D. Ensure that the client is receiving RSSI above the minimum band select RSSI threshold.
- E. Ensure that the client is dual-band capable.
- F. Ensure that the WLAN has 802.11a enabled.

Answer: CDE

NEW QUESTION 36

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.

Answer: BC

NEW QUESTION 38

A company has 10 access point licenses available on their backup Cisco WLC and their primary Cisco WLC is at full capacity, 5 access points are set to high failover priority and 7 access points are set to critical failover priority. During a failure, not all critical access points failed over to the backup Cisco WLC. Which configuration is the cause of this issue?

- A. The high priority access point is oversubscribed.
- B. network ap-priority is set to enable.
- C. The critical priority access point count is oversubscribed.
- D. network ap-priority is set to disable.

Answer: A

NEW QUESTION 40

An engineer must decide the cell overlap for a wireless voice deployment. Which Cisco measurement recommendation should be considered?

- A. The edge of the cell should be -67 dBm.
- B. The edge of the cell should be below 35 RSSI.
- C. The measurement should be done on the 2.4-GHz band.
- D. One AP should be deployed per 3000 square feet.

Answer: A

NEW QUESTION 45

When conducting a site survey for real-time traffic over wireless, which two design capabilities of smartphones and tablets must be considered? (Choose two.)

- A. no support for 802.11ac
- B. higher data rates than laptops
- C. fewer antennas than laptops
- D. no support for 802.11r
- E. lower data rates than laptops

Answer: BC

NEW QUESTION 50

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.

Answer: A

NEW QUESTION 54

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

Answer: A

NEW QUESTION 58

A customer has two Cisco 550B WLCs that manage all the access points in their network and provide N+1 redundancy and load balancing. The primary Cisco

WLC has 60 licenses and the secondary Cisco WLC has 40. The customer wants to convert the N+1 model to an HA model and provide SSO. Configuration must be performed during a maintenance window. After performing all the configurations on both controllers, the config redundancy unit secondary command is issued on the secondary Cisco WLC and it fails. Which parameter needs to be in place to complete the configuration?

- A. A cable in the RP port
- B. The secondary Cisco WLC needs a minimum of 50 base licenses
- C. The primary Cisco WLC is already set as the secondary unit.
- D. SSO needs to be enabled

Answer: B

NEW QUESTION 59

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