

Cisco

Exam Questions 300-425

Designing Cisco Enterprise Wireless Networks (ENWLSD)



NEW QUESTION 1

A customer is looking for a network design with Cisco Hyperlocation 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 2

What is the recommended cell overlap when designing a wireless network for Cisco Hyperlocation?

- A. 20%
- B. 30%
- C. 40%
- D. 50%

Answer: A

Explanation:

- 20% cell overlap for optimized roaming and location calculations

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

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: BE

Explanation:

Site surveys are one of the basic requirements when you deploy a WLAN, and you must always consider the Wi-Fi capabilities of the client devices or endpoints. Most smartphones and tablets support 802.11. However, generally, the smartphones and tablets have fewer antennas and lower data rates than laptops. In addition, most are not purpose-built for the enterprise WLAN market. Almost all smartphones and tablets support enterprise security policies. However, many of them do not support

NEW QUESTION 5

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

Explanation:

Once SSO is enabled, the Standby WLC can be accessed via console connection or via SSH on the service port and on the redundant management interface.

NEW QUESTION 6

How does AP failover priority for access points function when configured with priority 1 or 4?

- A. When configured with priority 1, the access point is assigned with the highest priority level and it is marked as critical.
- B. This access point fails over before other access points with the lower priority when there is primary controller failure.
- C. When configured with priority 4, the access point is assigned with the highest priority level and it is marked as critical.
- D. This access point fails over before other access points with the lower priority when there is primary controller failure.
- E. When configured with priority 4, the access point is assigned with the lowest priority level and it is marked as low.
- F. This access point fails over after other access points with the higher priority when there is primary controller failure.
- G. When configured with priority 1, the access point is assigned with the medium priority level and it is marked as medium.
- H. This access point fails over after other access points with the higher priority when there is primary controller failure.

Answer: B

NEW QUESTION 7

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.

Answer: D

NEW QUESTION 8

How should the concept of mobility domains and mobility groups be explained to a customer?

- A. WLCs do not need to be in the same mobility domain to communicate with each other. Mobility groups constrain the distribution of security context of a client and also constrain AP fail-over between controllers.
- B. A mobility group does not constrain the distribution of security context of a client and also does not constrain AP fail-over between controllers when the WLCs are in the same mobility domain.
- C. If WLCs are in the same mobility domain, they communicate with each other.
- D. Mobility groups constrain the distribution of security context of a client and also constrain AP fail-over between controllers.
- E. If WLCs are in the same mobility domain, they communicate with each other but.
- F. If an anchor WLC is present, it must be in the same mobility domain for communication to be possible.

Answer: C

NEW QUESTION 9

An enterprise is using the wireless network as the main network connection for corporate users and guests. To ensure wireless network availability, two standalone controllers are installed in the head office. APs are connected to the controllers using a round-robin approach to load balance the traffic. After a power cut, the wireless clients disconnect while roaming. An engineer tried rejoining from the controller but failed. Which protocol needs to be allowed between the networks that the controllers are installed?

- A. IP Protocol 67
- B. IP Protocol 77
- C. IP Protocol 87
- D. IP Protocol 97

Answer: D

Explanation:

Mobility data traffic is carried via Ethernet over IP (EoIP) which is IP protocol 97. This is the IP protocol number, not a TCP/UDP port value.

NEW QUESTION 10

An AP is receiving 802.11 packets on its 802.11a radio with an RSSI value of -77 dBm. The current AP is part of an AP group that has been assigned an RF profile with RX-SOP set to Medium for 802.11a. Which action does the AP take with the packets?

- A. All frames are classified as non-Wi-Fi frames and are not decoded by the 5 GHz radio.
- B. Frames are decoded by the 2.4 GHz radio.
- C. All frames are classified as non-Wi-Fi frames and are not decoded by the 2.4 GHz radio.
- D. Frames are decoded by the 5 GHz radio.

Answer: C

NEW QUESTION 10

During a post-deployment site survey, issues are found with non-Wi-Fi interference. What should the

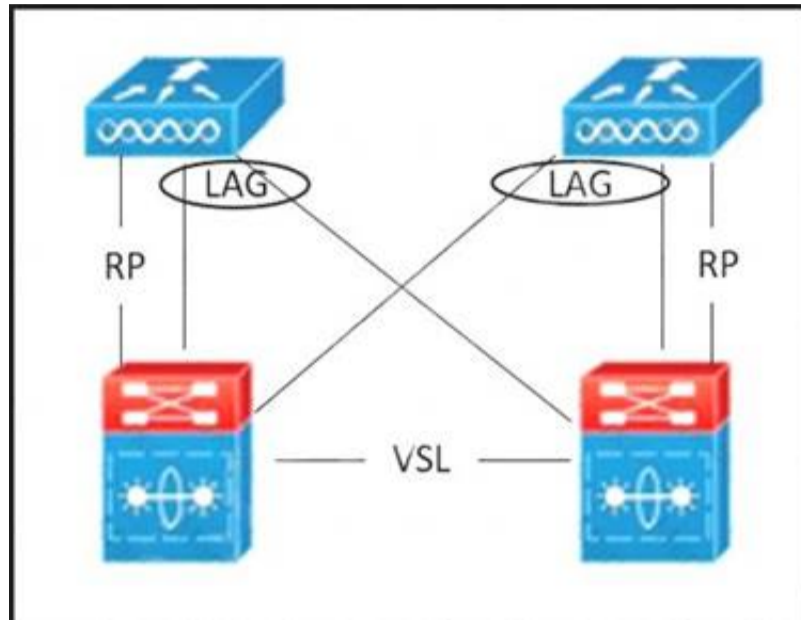
engineer use to identify the source of the Interference?

- A. Network analysis module
- B. Wireless intrusion prevention
- C. Wireshark
- D. Cisco spectrum expert

Answer: D

NEW QUESTION 13

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 16

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

Answer: A

Explanation:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/8-5/configguide/b_cg85/advanced_wireless_tuning.ht

NEW QUESTION 20

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 21

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

Explanation:

<https://www.cisco.com/c/en/us/products/collateral/wireless/catalyst-9100ax-access-points/nb-06-802-11ax-faq-c>

NEW QUESTION 24

A network administrator of a global organization is collapsing all controllers to a single cluster located in central Europe. Which concern must be addressed?

- A. Some channels may not be available consistently across the organization.
- B. Different RF policies per office are not available in this configuration.
- C. Syslog must be configured to the time-zone of the NMS platform.
- D. Centralized controllers cannot uniformly authenticate global users.

Answer: C

Explanation:

https://www.cisco.com/c/en/us/td/docs/wireless/controller/technotes/86/b_Cisco_Wireless_LAN_Controller_Co

NEW QUESTION 29

Which statement about AP failover priority for access points when configured with priority 1 or 4 is true?

- A. When configured with priority 1, the access point is assigned with the highest priority level and it is marked as critical.
- B. This access point fails over before other access points with the lower priority when there is primary controller failure.
- C. When configured with priority 4, the access point is assigned with the highest priority level and it is marked as critical.
- D. This access point fails over before other access points with the lower priority when there is primary controller failure.
- E. When configured with priority 4, the access point is assigned with the lowest priority level and it is marked as low.
- F. This access point fails over after other access points with the higher priority when there is primary controller failure.
- G. When configured with priority 1, the access point is assigned with the medium priority level and it is marked as medium.
- H. This access point fails over after other access points with the higher priority when there is primary controller failure.

Answer: B

Explanation:

N+1 Redundancy

AP Failover Priority

- Assign priorities to APs: Critical, High, Medium, Low
- Critical priority APs get precedence over all other APs when joining a controller
- In a failover situation, a higher priority AP will be allowed to join ahead of all other APs

NEW QUESTION 33

An enterprise is using a Cisco AireOS controller and Wi-Fi 6 APs. The controller is installed in the head office, and the employees primarily use Apple OS devices. The APs broadcast WLAN

ENT-WLAN406558520-1 for the employees and a guest WLAN with similar naming. What needs to be enabled on the controller to optimize roaming?

- A. Aggregated Probe Response Optimization
- B. Fast SSID Changing
- C. Load Balancing Window
- D. Client Timers

Answer: B

NEW QUESTION 36

During a wireless network design, a customer requires wireless coverage on the perimeter of a building but also wants to minimize signal leakage from the wireless network. Which antenna should be used to accomplish this design?

- A. Patch
- B. Dipole
- C. Monopole
- D. Omnidirectional

Answer: C

Explanation:

<https://www.cisco.com/c/en/us/td/docs/routers/connectedgrid/antennas/installing-combined/industrial-routers-an>

NEW QUESTION 38

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

Explanation:

- Enable these UDP ports for Mobility traffic:
 - 16666 - Secured Mode
 - 16667 - Unsecured Mode

NEW QUESTION 41

A medium-sized hospitality company with 50 hotels needs to upgrade the existing WLAN in each hotel to 802.11n. During the site surveys for each hotel, what needs to be taken into consideration when determining the locations for each AP?

- A. Selecting locations that are easily accessed so maintenance and upgrades can be performed quickly.
- B. Selecting AP locations where power is already available.
- C. Selecting APs that can be hidden in ceiling panels to provide a secure and clean aesthetic look.
- D. Selecting locations that make visual assessment of the AP operation easy.

Answer: B

NEW QUESTION 43

An engineer must configure the virtual IP address on multiple controllers in a mobility group. Which rule must the engineer follow to ensure proper roaming?

- A. Ensure that the DNS entry is tied to the virtual IP address of the WLC.
- B. Use a unique IP address for each WLC.
- C. Ensure that the DNS Host Name field is defined.
- D. Use the same IP address for each WLC.

Answer: A

Explanation:

All controllers within a mobility group must be configured with the same virtual interface IP address.

NEW QUESTION 47

A customer has restricted the AP and antenna combinations for a design to be limited to one model integrated antenna AP for carpeted spaces and one model external antenna AP with high gain antennas for industrial, maintenance, or storage areas. When moving between a carpeted area to an industrial area, the engineer forgets to change survey devices and surveys several APs. Which strategy will reduce the negative impact of the design?

- A. Resurvey and adjust the design.
- B. Deploy unsurveyed access points to the design.
- C. Deploy the specified access points per area type.
- D. Increase the Tx power on incorrectly surveyed access points.

Answer: A

NEW QUESTION 51

Which statement about creating a mobility group is true, excluding mobility anchors?

- A. Each WLC must use the same mobility name and be defined as a peer in each other's static mobility members list.
- B. If WLCs with HA SSO are deployed, each WLC in the WLC HA pair is considered separately as a mobility peer.
- C. 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.
- D. A mobility group does not require all WLCs in the group to use the same virtual IP address.

Answer: B

Explanation:

- The HA pair of AireOS WLCs should be considered as separated WLCs with the same exact configuration

NEW QUESTION 55

A wireless engineer must design mobility between two buildings at a campus site. The engineer has one controller at each site. The engineer is investigating inter-controller CAPWAP data and control traffic. Which two ports must be open? (Choose two.)

- A. 5246
- B. 5247
- C. 8443
- D. 16666
- E. 16667

Answer: CD

NEW QUESTION 59

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